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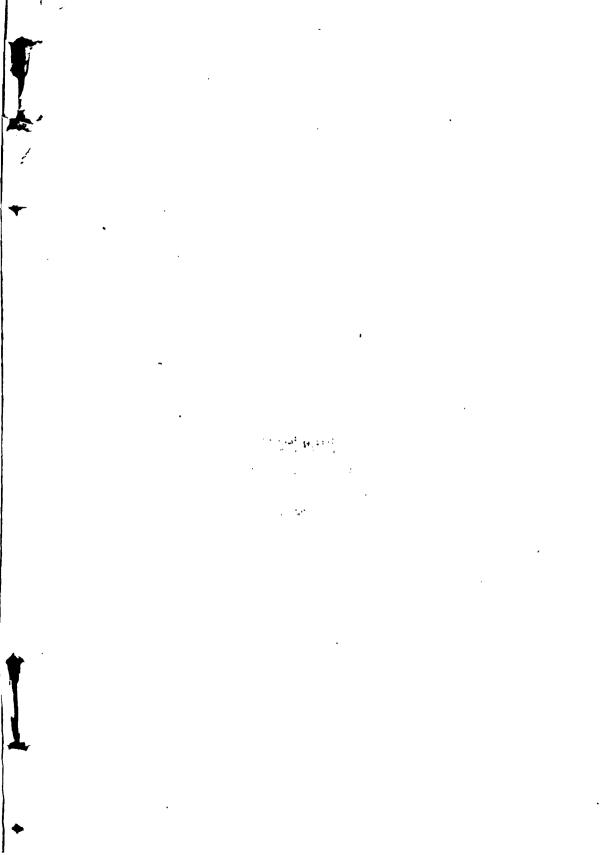
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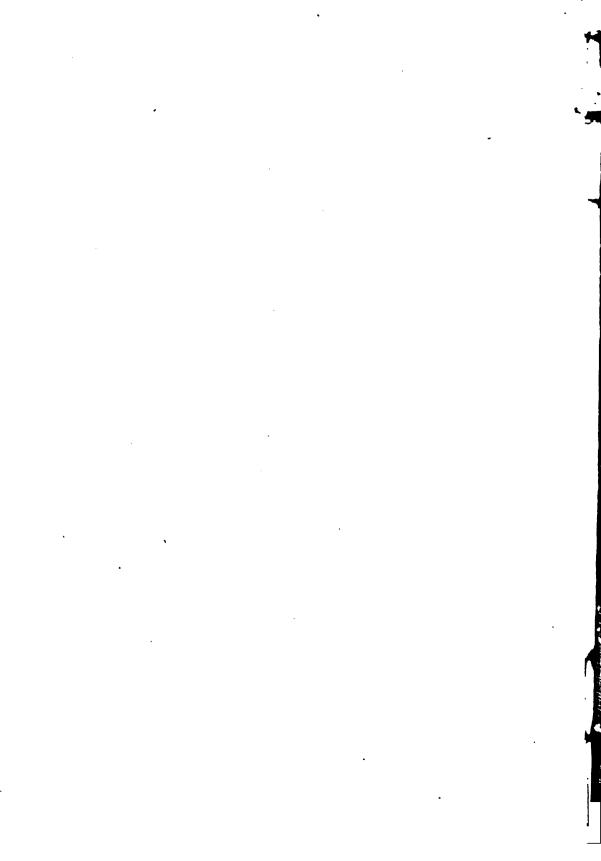
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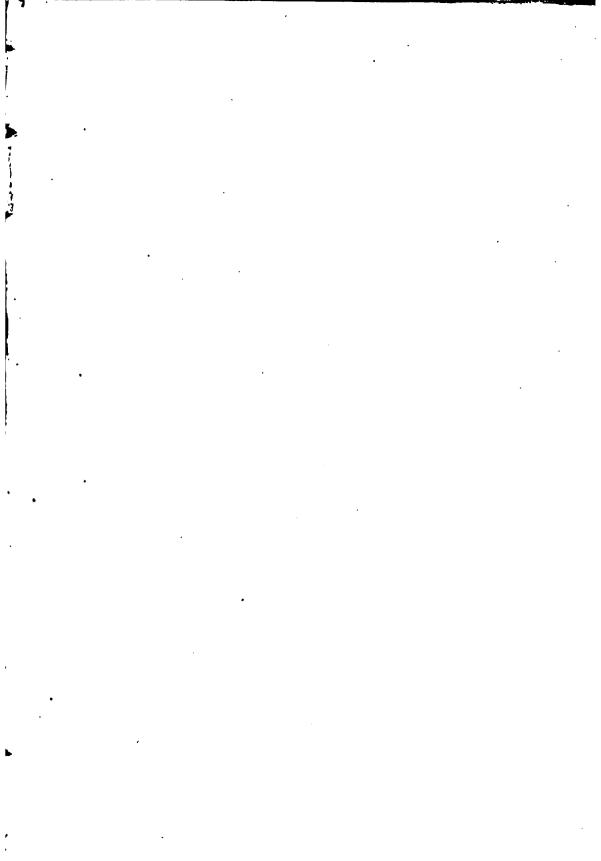
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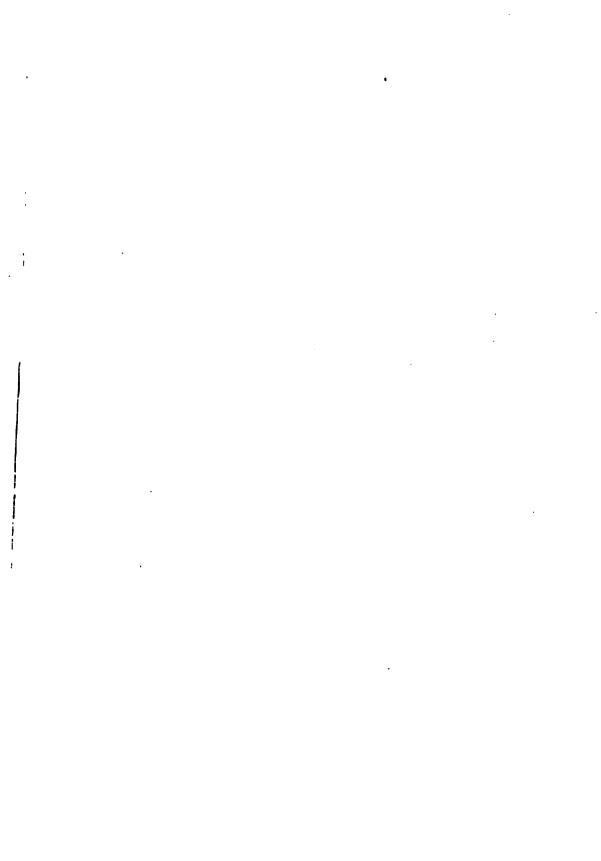
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C. & W. M. R



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## TWENTY-FIFTH ANNUAL REPORT

# COMMISSIONER OF RAILROADS

OF THE

## STATE OF MICHIGAN

FOR THE YEAR 1897



BY AUTHORITY



LANSING, MICH.
BOBERT SMITH PRINTING CO., STATE PRINTERS AND BINDERS
1897

### OFFICERS OF THE DEPARTMENT.

1897.

SYBRANT WESSELIUS, KENT Co., Commissioner.

WILLIAM W. WEDEMEYER, WASHTENAW Co., Deputy Commissioner.

ELLIOTT F. MOORE, SAGINAW Co., Mechanical Engineer.

OFFICIAL ADDRESS:

LANSING, - - MICHIGAN.

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			•

## COMMISSIONERS OF RAILROADS.

DEPARTMENT CREATED APRIL 10, 1873. TERM OF OFFICE TWO YEARS.

STEPHEN S. COBB,	-	-	-	_	-	-	Appointed April 25, 1873:
					_	_	May 1, 1877
WM. B. WILLIAMS,	-	•	•	•	_		<del>-</del>
WM. P. INNIS,	-	-	-	-	-	-	January 12, 1883
					_	_	- January 15, 1885
WM. McPHERSON, Jr.,	-	-	-	-			
JOHN T. RICH,	_	-	-	-	-	•	January 12, 1887
							- January 14, 1891
CHAS. R. WHITMAN,	-	-	-	-	-	•	
		_		_	-	-	January 10, 1893
SIMEON R. BILLINGS,	-	-					
SYBRANT WESSELIUS, -	-	-	-	-	-	-	- January 14, 1897



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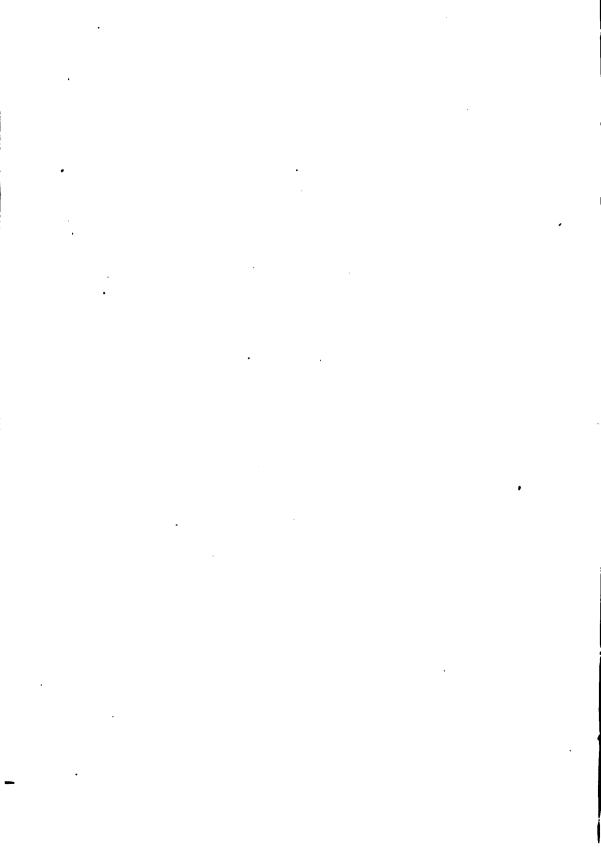
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Munising	487
Pontiac, Oxford & Northern	745
Saginaw, Tuscola & Haron	445 454
Saginaw Varley & St. Louis system	44
Baginaw & Grand Rapids	464
Sault Ste. Marie Bridge Co.	473
Sault Ste. Marie Bridge Co. South Haven & Eastern	475
St. Clair Tonnel	482
St. Joseph Valley	486
Superior Terminal	490
Superior Terminal	492 501
Wisconsin & Michigan	501
Wabash Detroit Union R. R. Depot & Station Co	511
Detroit Union R. R. Depot & Station Co	524 527
The Fort Street Union Depot Co.	521
ORM AND PORMST ROADS.	
OLE AND FOREST SOADS.	
Bear Lake & Reatern	592
Bear Lake & Rastern Crawford & Manistee River	587
LOGU KITOF	542
Heals & Torch Lake	544
Lake Superior & labpaming	649
Lewiston & Southeastern	157
Manistee & Luther	562 568
Quincy & Torch Lake	500



### REPORT.

STATE OF MICHIGAN,
OFFICE OF THE COMMISSIONER OF RAILROADS,
Lansing, December 31, 1897.

Honorable Hazen S. Pingree, Governor of Michigan:

Sir—In compliance with the requirements of section 3294 of Howell's Annotated Statutes of the State of Michigan, I herewith submit my annual report for the year ending December 31, 1897.

Except as hereinafter specified provision is made in the organic law of this department for the employment of a corps of competent assistants, through the aid of which the work for the past year has been taken up and completed with the success indicated in the report herewith submitted to you.

#### BAILROAD CORPORATIONS.

Eighty-one railroads are doing business in the State of Michigan under the general railroad law; and in addition thereto, eight ore and forest roads are operated and doing business in Michigan; all of which make annual reports to this department.

The total railroad mileage of Michigan is 9,958.15, of which 2,165.86 miles are sidings and spurs; 23.21 miles are reported as main second track, and 7,759.08 miles are reported as main track. These figures are based upon the reports of the railroad companies made to this department for the year ending December 31, 1896. During the year covered by the reports there were built 150.47 miles of additional track, consisting mainly of additions to the existing lines of railroads. During the current year, 1897, there has been increased activity in railroad projection and building. Articles of incorporation have been filed with the Secretary of State for the incorporation of six additional companies under the provision of the general railroad law. These companies have filed maps in this department providing for the construction of 247 miles of main track, most of which is now in process of construction, and all of which will have trains operated thereon during the coming year. In addition to the lines projected by the roads above referred to, there

have been built during the current year, 132.04 miles of railroad, making a total of new lines and hies in process of construction 379.04 miles, as compared with 96.11 miles in 1895; .67 miles in 1894; 64.46 miles in 1893, and 172.43 miles in 1892. In addition thereto it may be added that the reports to this department disclose that the year 1897 has witnessed the largest increase of railroad mileage in this State during the history of the department, with the exception of the years 1881 and 1888.

While this department has no detailed record of the number of miles of suburban electric lines constructed during the last two years in Michigan, it should not be forgotten that these companies, as now organized, are conducting a business kindred to that of the steam railroads; and that in computing the increased railroad mileage of Michigan they should not be forgotten in considering the development of

the State's transportation facilities.

In order to form a just estimate, not only of the cause for the present activity in the lines of railway extension in this State, but as well to aid in forming an estimate of its future prospects in that regard, I have the honor to submit an article upon the subject of Michigan and its resources, which is embodied in this report.

The following table shows the increase of new line built in Michigan

during the past twenty-five years.

#### Track mileage—Road owned in Michigan.

V	Miles.	Inc	rease.
Year.	miles.	Year.	Amount.
1872 1873 1874 1875 1876	2,975.76 3,258.01 3,314.98 3,346.21 3,410.67	1878 1874 1875 1876	277.25 61.97 81.28 64.46
Increase during 5 years			434.91
1877 1878 1879 1880 1881	8,455.20 3,564.26 3,657.74 8,823.95 4,252.58	1877 1878 1879 1880 1881	44.58 109.06 98.48 166.21 428.63
Increase during 5 years			841.91 1,276.82
	4,609.00 4,965.88 5,120.94 5,247.48 5,577.63	1882 1883 1884 1885 1886	356.42 356.88: 155.06 126.54 380.15
Increase during 5 years			1,825.05
1887 1888 1889 1890 1890	5,768.41 6,411.66 6,759.55 6,957.27 7,274.94	1887 1888 1889 1890 1891	190.78 643.25 347.89 197.72 317.67
Increase during 5 years			1,697.81
1892 1898 1898 1894 1895	7,447.97½ 7,511.88½ 7,512.50½ 7,608.61½ 7,759.08½	1892 1893 1894 1895 1896	172.48% 64.46 .67 96.11 150.47
Increase during 5 years.			484.141/ 4,783.321/

COST OF BAILBOADS OPERATING IN MICHIGAN AS EVIDENCED BY CAPITAL
STOCK AND INDEBTEDNESS—FUNDED AND UNFUNDED.

For the calendar year ending December 31, 1896, reports of the companies operating in Michigan show that they are capitalized for \$421,498,229.47, divided into shares of \$100 each, of which \$11,131,289.98 is held in Michigan. The stock is held by 24,258 stockholders, 893 of whom are residents of this State, about 97 per cent being held by non-residents.

The funded and unfunded debt of railroads operating in Michigan, as represented by their bonds and unfunded accounts, is \$650,725,491.22, making the total cost of railroads operating in Michigan, as evidenced by their indebtedness last named and their capital stock, \$1,072,223,720.69.

The most cursory examination of these figures will show that this amount is far in excess of the actual cost of the properties, and that in this State, as elsewhere, railroads have been bonded beyond their actual cost in many instances, and in addition thereto they have been stocked for an amount far in excess of their actual cost.

#### EXCESSIVE CAPITALIZATION AND BONDING.

While it has been maintained with some force that in the early development of the State's resources it became necessary to build railroads for the purpose chiefly of offering fruitful fields for speculation in their stocks and bonds, and that upon that basis alone their construction and maintenance was possible, yet it must be now generally admitted upon all sides that this necessity, if it ever has existed, has ceased to be of force. It is no longer necessary to overburden these properties, nor is it longer profitable to do so. The era when investors were willing to invest their means in artificial values has well-nigh passed by, although occasionally it is still possible to impose upon certain portions of the public by floating inflated stocks and bonds. As long as this practice is permitted to continue, as it is under the present laws of Michigan, the State will permit the possible fraud that may be committed thereby in the sale of worthless securities, and in addition thereto will make it difficult, if desirable, to regulate transportation charges of all kinds and reduce them to a proper sum on account of the heavy burden resting upon the companies.

In view of this situation, it appears to this department that the Legislature should at once enact a law prohibiting railroad corporations from bonding and stocking themselves for more than their actual cost. A proper officer or board should be vested with the power to make exact inventory of the assets of the company seeking to stock and bond itself, and have the power to prohibit an overissue of either. All refunding schemes affecting corporations now in existence should also be under the supervision and control of this authority. The enactment of such statute would not hamper the companies in any respect, but simply place them upon the same basis as other lines of legitimate business.

#### RAILBOAD TAXATION.

This department has heretofore had the honor to furnish your Excellency with the data at its command upon the subject of the proper taxation of railroads. I deem it unnecessary, therefore, to enter upon an extended review of that question, as presented by the records and files of this department, respectfully referring to the work accomplished in that behalf by your direction.

Much study has been given by the department to this subject, and I herewith respectfully submit some general conclusions for your con-

sideration, as follows:

First, An increase of the tax upon railroad properties should be accomplished by a general revision of the law taxing all quasi public corporations, and should not be limited to railroads only, as evidenced by the following table, showing amount of taxes paid by certain corporations of this class for year ending July 1st, 1896.

Express	\$2,742.34
Insurance	
Freight, palace and sleeping cars	47.53
Railroad companies	
River improvements	
Plank road	855.52
Telegraph and telephone	42,499.37
	\$1,002,312,40

It should be borne in mind that many corporations of this class pay practically no tax at all.

Second, In the interest of fairness and to compel the property to pay its just contribution to the public burden, a specific tax or a tax on incomes should be abolished:

Third, In determining the value to be placed upon railroad property, the franchise owned by the company should be valued and taxed on the basis of the company's earnings; but the earnings should affect the tax in no other particular;

Fourth, The values for the purposes of taxation, in the opinion of this department, should be fixed by a State board with a corps of competent assistants able to deal justly with the property, and for the purposes of removing the subject of taxing these properties from local prejudice or possible incompetency in the local assessing officer;

Fifth, All taxes realized from railroads and other corporations, on the plan above suggested, should be paid directly to the State Treasurer and applied to the primary school fund so far as deemed expedient; the balance, if any, to be paid into the general fund;

Sixth, A penalty should be inserted in the law so severe that the delays in the courts by appeals will be obtained only at the risk of large expense in the end to the corporation appealing. The question is the most important with which this department has had to deal, and it

is gratifying to know that there is a well-founded hope that the whole matter will be finally determined without that clash between the people and the corporate interests of the State that was at first threatened.

The want of serious attention given to this and other matters of legislation affecting so-called railroad bills would perhaps not bear out this hope, but with a better understanding of the subject matter by the people and the railroads as well the history made by the Legislature thereon as given below cannot be repeated.

#### HISTORY OF BAILBOAD LEGISLATION.

The railroad department herewith submits its record of railroad legislation considered by the Legislature of 1897-98 at its first session:

Senator Robinson introduced a bill the object of which was to reduce

rates of passenger fare on the railroads of the Upper Peninsula.

This bill was placed on the general order April 22; considered in committee of the whole; failed to pass; reconsidered; tabled April 29. It was taken from the table May 26; failed to pass, although it received a majority of the votes of the Senators present, the vote standing 16 to 15.

Representative Widoe introduced a bill popularly known as the "500-mile mileage bill." The following was the principal provision of the bill: "That 500-mile tickets, and one thousand mile tickets shall be kept for sale at the principal ticket offices of all railroad companies in this State or carrying on business partly within and partly without the limits of this State, at a price not exceeding ten dollars for said 500-mile books, and twenty dollars for the said 1,000-mile books in the lower peninsula, and twelve and fifty one-hundredths dollars for said 500-mile books and twenty-five dollars for said 1,000-mile books in the upper peninsula."

This bill passed the House by a vote of 79 to 7, and was transmitted May 18 to the Senate. In the Senate is was referred to the committee

on railroads, and was never reported out.

Representative Donovan introduced a bill to provide for the issue and sale of an interchangeable and redeemable system of mileage books by all persons, companies or corporations operating steam railroads in the State of Michigan.

This bill was ordered printed for committee February 24, and was placed on the general order May 14; considered in committee of the whole May 17; passed and transmitted to the Senate May 18. The vote on this bill in the House was 57 years and 27 nays. The bill then went to the Senate, where it was referred to the committee on railroads May 18, and where it remained, as it was never reported out.

Representative Atkinson introduced a bill popularly known as the 2-cent-a-mile bill, reducing the fare on all railroads in the State to two

cents a mile.

This bill contemplated an amendment of section 9 of article 2 of act No. 198 of the Public Acts of 1873, which would amend this section, under this heading "Every such corporation shall possess the general powers and be subject to the liabilities and restrictions following, that is to say," to read as follows:

"Ninth, To regulate the time and manner in which passengers and property shall be transported, and the tolls and compensation to be paid therefore; but such compensation for transporting any passenger and his or her ordinary baggage, not exceeding in weight one hundred and fifty pounds, shall not exceed the price of two cents per mile for any distance."

This bill was reported; printed for committee February 17; made special order for April 13 and afterward for April 28 and May 12. It was defeated May 12 by a vote of 49 to 41; reconsidered and tabled May 13.

Senator Barnard introduced a bill requiring railroad companies to furnish transportation to the office of the Commissioner of Railroads.

This bill was referred to the committee on railroads and reported adversely; tabled February 10; taken up and referred to the committee on State affairs February 16. This committee reported a substitute with following title: "A bill requiring railroad companies in the State of Michigan to transport over their lines the Commissioner of Railroads, his deputy, mechanical engineer, and other duly appointed persons while engaged in official business in discharge of the duties of such office."

This bill was referred to the committee on judiciary April 8, but

was never voted on because the committee never reported it out.

Representative Lusk introduced a bill to prohibit public officers from soliciting or accepting passes, favors or free transportation from any railroad company, street railroad company, steamboat or transportation company, or any other corporation engaged in carrying passengers.

This bill was referred to the committee on railroads, and tabled on recommendation of that committee.

Representative Atkinson introduced a bill to prevent discrimination between passengers and shippers of freight on railroads in this State, and to provide a penalty therefor.

This bill was referred to the committee on railroads, printed for use of the committee February 18; made special order April 13; considered in committee of the whole, and finally tabled on April 14.

Senator Flood introduced a bill to regulate and prescribe the tolls and compensation which railroad companies and other corporations operating railroads in the State of Michigan may charge for transporting passengers and baggage.

This bill was tabled February 24. On April 22 the same was taken from the table and referred to the committee on railroads, but never was reported out by the committee.

Representative Fuller introduced a bill to regulate rates of freight on iron ore on railroads in the State of Michigan.

This bill was tabled February 24.

Senator Holmes introduced a bill to regulate railway corporations and other common carriers in this State and to define the powers and duties of the Board of Railway Commissioners in relation to the same, and to prevent and punish extortion and unjust discrimination in the rates charged for the transportation of passengers and freights on railroads in this State, and to prescribe the mode of procedure and rules of evidence in relation thereto, and to repeal all laws in force in direct conflict with the provisions of the same.

This bill was referred to the committee on railroads; ordered printed for the committee March 4. It was never reported out by the railroad committee, and was therefore never acted upon by the Senate.

Representative Atkinson introduced a bill to provide a remedy for persons aggrieved by overcharging by railroad companies, and to provide a penalty for the violation of any provision of the special railroad charters in this State by railroad companies operating under such special charters.

This bill was referred to the committee on railroads; made special order for April 28, and finally tabled May 11.

Other bills looking to the same end were tabled on recommendation of the committee on railroads.

Representative Bricker introduced a bill for the regulation of freight rates in the State of Michigan, and for providing penalties for the violation of the same.

This bill was referred to the committee on railroads; was made special order for April 28 and May 11; placed on the general order May 25.

Senator Merriman introduced a bill February 9, to amend section 3 of article 3 of act 198, session laws of 1873, as amended by act 45, public acts of 1879, as amended by act 174, public acts of 1891, as amended by act 129, public acts of 1893, entitled "An act to revise the laws providing for the incorporation of railroad companies, and to regulate the running and management, and to fix the duties and liabilities of all said roads and other corporations owning or operating any railroads in this State," approved May 1, 1873, being compiler's section 3360, Howell's Annotated Statutes of Michigan.

This bill had reference to the taxation of railroads; its principal

provision being as follows:

Section 3. Every railroad company formed under the provisions of this act, or which now is or may hereafter be brought under the provisions of the general law of this State for the taxation of railway or railroad corporations, and every railroad company or other corporation, owning or operating any railroad situated in whole or in part in this State shall, on or before the first day of July in each year, pay to the State Treasurer on the statement of the Auditor General a specific tax upon the property and business of such railroad corporation operated within the State, which tax shall be computed in the following manner, viz.: Upon all such gross income not exceeding two thousand dollars per mile of road actually operated within this State; two and one-half per cent of such gross income; upon such gross income in excess of two thousand dollars and not exceeding four thousand dollars per mile, three and one-fourth per cent thereof; upon all such gross income in excess of four thousand dollars and not exceeding six thousand dollars per mile, four per cent thereof; and upon all such gross income in excess of six thousand dollars per mile, four and one-half per cent thereof."

The House amended the bill as follows:

1. By striking out of lines 1, 2, 3 and 4 of section 3 the words "formed under the provisions of this act or which now is or may hereafter be brought under the provisions of the general law of this

State for the taxation of railway or railroad corporations, and every railroad company or other corporation."

2. By striking out of line 13 of section 3 the words "three and one-fourth" and inserting in lieu thereof the word "four."

3. By striking out of line 15 of section 3 the word "four" and inserting in lieu thereof the word "six."

4. By striking out of lines 16 and 17 of section 3 the words "four and one-half" and inserting in lieu thereof the word "ten."

The Senate refused to concur in the amendments. The bill was then returned to the Senate by the House, which insisted on its amendments and asked for a committee of conference in regard to the difference existing between the House and Senate relative to the bill. Such committees were appointed, the members of the Senate committee being Senators Merriman, Preston, Maitland, Teeple and Youmans. The members of the House committee were Messrs. Chamberlain, Sawyer, Kelly, Fleischhauer and Washer. The report of the conference committee was adopted by the Senate and retransmitted May 20. It was adopted by the House and returned May 25. Referred by the Senate for enrollment May 26.

Representative Stoneman introduced a bill to provide for the local taxation of railroads. This was referred to the committee on railroads; printed for the use of the committee February 24; made special order for April 13; finally considered in committee of the whole May 11; taken from third reading and referred to the committee on judiciary May 12; reported; tabled May 28.

Representative Green introduced a bill to provide for the taxation and collection of taxes of persons, companies, associations and corporations whether located within or without this State, engaged in running palace, drawing-room, dining or sleeping cars, over or upon any railroad situated wholly or partly within this State.

This bill was referred to the committee on private corporations; reported and ordered printed March 9; finally reported and tabled May 28.

Representative McGill introduced a bill evidently having for its object to bring the railroads north of parallel 44 under the general tax law and subject to the same rate of taxation as the other railroads of the State.

(It will be remembered that railroads north of parallel 44 are now exempt from taxation "until they have operated for the full period of ten years unless the gross earnings shall exceed four thousand dollars per mile, etc.")

This bill was referred to the committee on general taxation; reported May 9, and finally tabled May 28.

Representative Stoneman introduced a bill to provide for the determination of the valuation, assessment and taxation of the property of telephone, telegraph, railroad, sleeping and parlor car and express companies and such other property as is not now valued, assessed and taxed under the provisions of the general laws of this State, and to provide for the collection of such tax in the locality in which said property is located, and to repeal all laws or parts of laws in conflict therewith.

This bill was referred to the committee on general taxation. Bill was tabled.

Representative Stoneman introduced a bill providing that the railroad companies should defray all the expenses of the Commissioner of Railroad's office, not exceeding twenty-five thousand dollars a year.

This bill was referred to the committee on railroads, and printed for that committee May 24; tabled on recommendation of same committee May 28.

Representative Stoneman introduced a bill providing for the payment of a license on railway sleeping cars, regulating fare charged and regulating the method of operating the berths of said sleeping cars.

This bill was reported and ordered printed March 9, and it was tabled

May 28.

Representative Bemis introduced a bill to provide for a report and payment of a license fee by an issuance of a license to sleeping, drawing-room, parlor, palace and chair car companies doing business in this State.

This bill was referred to the committee on private corporations; reported general order May 18.

Senator Loomis introduced a bill having for its object to require rail-

roads to carry bicycles free of charge.

This bill was referred to the Senate committee on railroads; printed for the committee, and never reported.

Representative Anderson introduced a bill in the House having for its object to require railroads to carry bicycles free of charge, which bill passed the House by a unanimous vote; was given immediate effect; transmitted to the Senate; passed the Senate; approved April 29.

Representative Eikhoff introduced a bill to regulate the carrying of passengers by all railway companies, corporations, co-partners or indi-

viduals.

This bill required railway companies to furnish seats for passengers, and made it a misdemeanor to collect fares unless seats were furnished. The bill was referred to the committee on railroads; printed for use of committee February 26; tabled May 28, on recommendation of committee.

Senator Bostwick introduced into the Senate a bill having a similar purpose to that of Mr. Eikhoff in the House, namely, to compel railroad companies to furnish seats to passengers.

This bill was referred to the committee on railroads, and was never reported out.

Senator Youmans introduced a bill to secure greater safety to passengers on steam railroads and electric railroads other than street railways.

This bill was referred to the committee on railroads; reported favorably, and passed; transmitted April 1st. In the House the bill was tabled May 28 on recommendation of the committee on railroads.

Senator Youmans also introduced a bill to secure greater safety to passengers getting on and off passenger cars on steam railroads and electric railroads other than street railways.

This bill was referred to the committee on railroads; printed for the committee March 4 but never reported.

Representative Foote introduced a bill to provide for public ingress and egress from railroad depots.

This bill was referred to the committee on railroads; printed for use of the committee February 18; considered in committee of the whole; motion to strike out all after the enacting clause lost; tabled May 11; motion to take the bill from table lost May 12; taken from table and placed on third reading May 19. Substitute not adopted and tabled May 28.

Representative Weier introduced a bill to provide for the protection of persons and property in highways at steam or electric railway crossings over public highways, regulating the use of such crossings by street railway, electric or steam railroad companies and providing for damage for persons or property injured thereat.

This bill was reported; printed March 2; tabled March 28.

Representative Sawyer introduced a bill to protect the lives and property of persons at the crossings of railroads and public highways within the State of Michigan.

The principal provision of this bill is as follows: "It shall be the duty of the Commissioner whenever applied to by petition signed by at least five freeholders of this State using any crossing and duly verified, setting forth that any railroad giving its location and situation, is dangerous to the traveling public; to proceed forthwith to investigate the same, and if he shall find the said petition to be true and the said railroad crossings be so situated as to be dangerous or likely to be injurious to the traveling public he shall forthwith order and require the railroad company whose duty it is to maintain any such crossing, forthwith to erect at any such railroad crossing an automatic bell signal " " within thirty days from the service of the same upon such railroad company."

This bill passed the House April 15, the vote being yeas 65, nays 2. It was then transmitted to the Senate where it was referred to the committee on railroads April 16; reported favorably April 29; finally passed and returned April 30. The vote on the bill in the Senate was yeas 21, nays 0.

Representative Peek introduced a bill to prescribe the liability of railroad corporations owning or operating a railroad in this State, for damages sustained by its agents or servants by reason of the negligence of any other agent or servant thereof, when such damage is sustained within this State:

The bill read as follows:

"Section 1. The People of the State of Michigan enact, That every railroad corporation owning or operating a railroad in the State shall be liable for all damages sustained by any agent or servant thereof, by reason of the negligence of any other agent or servant thereof, without contributory negligence on his part when sustained within the State, and no contract, rule or regulation between such corporation and any other agent or servant shall impair or diminish such liability."

This bill was referred to the committee on railroads; one thousand extra copies printed for the committee February 17; tabled on recommendation of the committee May 28.

Representative Weier introduced a bill to define the rights of employés of railroad corporations (including street railway corporations), and to determine the liability of such corporations to its employés for injuries resulting from the negligence of employés of such corporations. The provisions were as follows:

"Section 1. The People of the State of Michigan enact, That every employé of a railroad or street railway corporation shall have the same rights and remedies for an injury suffered by him or her from the act or omission of the corporation, or its employés, as are allowed by law to other persons not employés, where the injury results from the negligence of a superior agent or officer, or of a person having the right to control or direct the services of the party injured, and also when the injury results from the negligence of a fellow servant engaged in another department of labor from that of the party injured, or of a fellow-servant on another train of cars, or one engaged about a different piece of work. Knowledge by an employé injured of the defective or unsafe condition or character of any machinery, ways or appliances, shall not be a defense to an action for injury caused thereby, except as to conductors or engineers in charge of dangerous or unsafe cars or engines or motors operated by them.

"Section 2. A motorman on an electric car shall be deemed an engineer in the meaning of this act. A motor car, with or without trailers, shall likewise be deemed a train.

"Section 3. Where death ensues to an employé the legal or personal representatives of the person injured shall have the same rights and remedies as are allowed by law to such representatives of other persons.

"Section 4. Any contract or agreement, express or implied, made by an employé to waive any benefits conferred by this section, shall be null and void; and all existing contracts of like nature shall be terminated and deemed and held inoperative hereafter.

"Section 5. This act shall not deprive an employé of any corporation, or his legal or personal representatives, of any right or remedy that he now has by law.

"Section 6. This act shall take immediate effect."

This bill was referred to the committee on railroads and labor January 13; reported; printed for committee March 9.

Representative Neidermeier introduced a bill to provide for the construction and maintenance of stock or cattle guards at public highway crossings by steam railroad companies, and providing damage for injury to live stock on account of the want thereof.

Referred to the committee on railroads; reported; one thousand extra copies printed for the committee; made special order for April 28 and May 11; placed on the general order May 25. Legislature adjourned without action.

Representative Kelly introduced a bill to prohibit the use of snow flanges upon locomotives in this State, and to provide a penalty therefor.

This bill was referred to the committee on railroads; printed for use of the committee, and tabled May 28 on the recommendation of committee.

Senator Hughes introduced a bill to require railroad companies to weigh grain and grain products upon the request of shippers, and give certificates of the same.

This bill was referred to the committee on railroads; tabled; taken from table and referred to committee on State affairs March 17. Reported substitute, same title, April 21; considered in committee and finally passed and transmitted April 28; was taken up on special order May 25, but never was enacted into law.

Senator Covell introduced a bill entitled "An act to provide for the appointment of a Commissioner of Railroads and to define his powers, duties and fix his compensation, etc.," which bill passed the Senate March 16; transmitted to the House where, on May 11, it was considered in committee of the whole. All after the title and enacting clause was stricken out, and the title was tabled.

Senator Holmes introduced a bill to establish a Board of Railroad Commissioners, prescribe their qualifications, fix their salaries, and for the appointment of a secretary for such board and to fix his salary."

On March 4 this bill was referred to the committee on railroads and ordered printed for said committee, but never reported out.

Representative Foote introduced a bill to amend that portion of the act for incorporating and regulating railroad companies, that refers to the crossing board and its duties.

This bill was referred to the committee on railroads. Placed on general order April 28; on for third reading and passed May 17. Referred to Senate committee on railroads May 18; reported favorably May 19; considered in committee of the whole and ordered to third reading May 24; passed and returned to House May 24. Reported enrolled May 25.

Senator Mudge introduced a bill entitled "An act to prohibit railroad companies from taking up their tracks and abandoning their stations and failing to operate their road in certain cases."

This bill was referred to the committee on railroads; printed for use of the committee March 4, but was never reported.

Senator Mudge introduced a similar bill February 19; it was referred to the committee on railroads, and never reported.

Representative Dudley introduced a bill to authorize railroad companies and street railway companies now organized, or that may hereafter be organized under the laws of the State, to lease the property and franchises of each other.

This bill was referred to the committee on railroads May 6; placed on the general order May 6; made special order May 11; placed on the general order May 17 and 18; not passed; reconsidered; tabled May 19; taken up and recommitted to the general order May 20; considered in the committee of the whole and recommitted to the committee on railroads May 24; reported; tabled May 28.

Representative Atkinson introduced a bill requiring all railroad corporations to hold at least one annual stockholders meeting and making regulations concerning it.

This bill passed the House May 12, and was transmitted to the Senate the same day. It was referred to the committee on railroads in the Senate May 14; reported favorably May 19; considered in the committee of the

whole and ordered to third reading May 24; passed, and returned May 24; referred for enrollment May 25.

Representative Atkinson introduced a bill to permit foreign railroad companies to hold and own certain lands in this State, to confirm conveyances of such lands to other foreign railroad companies on certain conditions, and to authorize the recording of a copy of agreements by which such conveyances have been or may be hereafter made.

This bill was referred to the committee on railroads January 27; reported, printed for committee February 17; special order for April 14, April 28 and May 11; considered in committee of the whole; passed, transmitted May 20. In the Senate referred to the committee on railroads May 20; reported favorably May 21; considered in committee of the whole; ordered to third reading May 25; passed May 26; finally enrolled May 27; approved May 31.

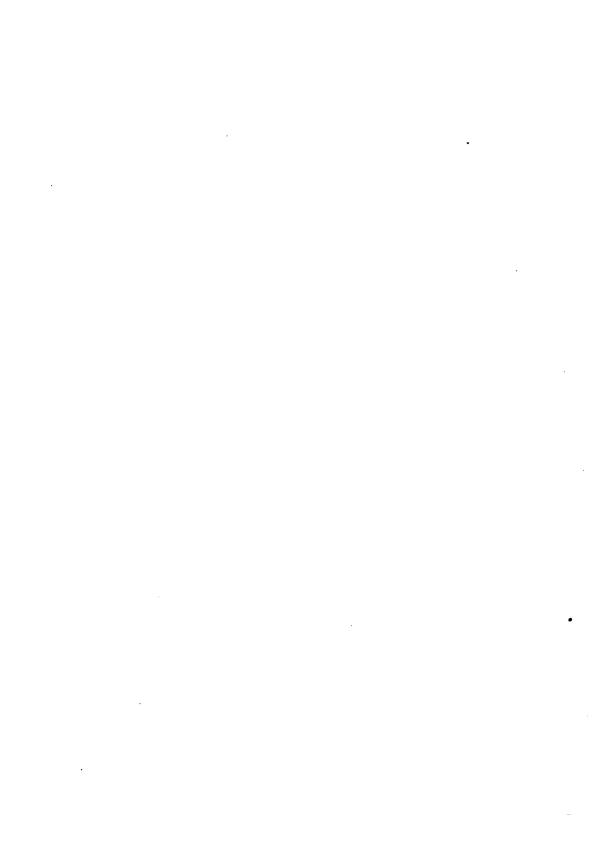
Representative Stewart introduced a bill to amend section 9 of an act entitled "An act to revise the laws providing for the incorporation of railroad companies and to regulate the running and management and to fix the duties and liabilities for all railroad and other corporations owning or operating any railroad in this State."

This bill was ordered printed for the committee February 24; tabled on recommendation of the committee on railroads May 28.

### A FINAL DECISION OF THE SUPREME COURT OF THE STATE CON-CERNING THE VALIDITY OF ONE OF THE SPECIAL CHARTERS GRANTED RAILROADS.

After many years of agitation by the people, the press and certain members of the legislature, a chapter of much value in determining the relation of the specially chartered roads of the State to the general railroad law thereof, has been closed by the supreme court. On account of its far-reaching influence upon the future policy of the State, and as well upon sundry laws upon the statute books not now enforced against these specially chartered companies, and in order to make the opinion easy of access to the persons receiving this report, the same is herewith printed in full.

At the time of the institution of this suit in the lower court, a majority of the railroads in the State, until the adoption of the one-thousand mile books recently issued under the rules of the Central Passenger Association, obeyed the provisions of act No. 90, public acts of 1891, requiring them to furnish one-thousand mile books for twenty dollars, good for use by the purchaser, his wife and children. The companies acting under special charters, notably the Michigan Central and the Lake Shore & Michigan Southern Railroads, refused to comply therewith. An action was instituted against the last named company in the circuit court for the county of Lenawee, where in due course of time the company was defeated. It took an appeal from the lower court to the supreme court of the State, which also rendered its decision against it. An appeal to the supreme court of the United States is now being perfected by the company.





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EFFROT OF THE DECISION UPON THE AMOUNT OF TAX TO BE PAID BY THE COMPANY.

The Lake Shore & Michigan Southern Railway Company has heretofore been taxed under the provisions of section 31 of its special charter. said tax being computed upon its "capital and debt being upon such portion of the whole of its capital and loans as is actually employed in the State of Michigan." The amount of this tax has not varied for a number of years, a fixed amount being paid annually in the sum of \$46.743.60. Computed under the general law as it now exists upon the statute books. upon the earnings of the company as reported for the year 1896, the tax would amount to \$47,845.82, a net gain to the State of \$1.102.22.

#### SMITH v. LAKE SHORE & M. S. RY. CO.

(Supreme Court of Michigan. Oct. 1, 1897.)

RAILROADS—LEGISLATIVE CONTROL—CONSOLIDATION OF COMPANIES—MAXIMUM RATES-MILEAGE BOOKS-TIME LIMIT.

1. Pub. Acts 1891, No. 90, requiring railroad companies in the state to keep for sale 1,000-mile tickets, at certain specified rates, to be issued in the name of the purchaser, his wife and children, and valid for two years, was intended to apply only to the transportation of passengers within the state, and is therefore not invalid, as

the transportation of passengers within the state, and is therefore not invalid, as being a regulation of interstate commerce.

2. Where a railroad company existing under a special charter was consolidated with a company existing under the laws of another state, by virtue of Pub. Acts 1855, No. 82, §§ 50, 52, providing for such consolidation "into a single corporation," which "new corporation" shall possess all the powers, rights, and franchises conferred on such corporations, respectively, and shall be subject to all the restrictions and perform all the duties imposed by their respective charters or law of organization not inconsistent with the provisions of such act, and that on the election of the and perform all the duties imposed by their respective charters or law of organiza-tion, not inconsistent with the provisions of such act, and that on the election of the first board of directors of the "corporation created by said agreement," all the rights, franchises, and property of each thereof shall be deemed to be transferred to and vested in such "new corporation" without any other deed or transfer, and such "new corporation" shall hold and enjoy the same, such consolidated entity was hereby constituted a new corporation, created under a general law, which, under Const. art. 15, § 1, "may be amended, altered, or repealed."

3. Under Const. art. 19a, § 1, empowering the legislature to pass laws, from time to time, establishing reasonable maximum rates and charges for the transportation of passengers on railroads, the legislature was authorized, in addition to establishing a maximum rate for a single fare, to establish the rate at which mileage books shall be furnished, as the term "maximum rate," in such constitutional provision, means the maximum rate which the company is to be permitted to charge under a given

set of circumstances.

4. It is competent for the legislature, under a constitutional provision reserving to it the power to amend, alter, or repeal the laws relating to the incorporation of railroad companies, to provide that a ticket issued to a passenger shall be valid for a definite, reasonable time.

Grant and Hooker, JJ., dissenting.

Certiorari to circuit court, Lenawee county; Victor H. Lane, Judge. Petition by Henry C. Smith, as relator, for a writ of mandamus to the Lake Shore & Michigan Southern Railway Company, to compel the issue of a mileage book in the name of himself and wife. From an order awarding the writ, respondent brings certiorari. Affirmed.

Fred A. Maynard, Atty. Gen. (Watts, Bean & Smith, of counsel), for relator. Ashley Pond, A. C. Angell, and C. E. Weaver (George C. Greene, of counsel), for respondent.

Montgomery, J. The relator applied to the respondent company for a 1,000-mile mileage book, to be issued in the name of himself and wife, and was refused. He thereupon brought this proceeding in the circuit court, to compel the respondent to issue such a ticket. The circuit judge granted an order that a ticket good upon the lines of the respondent in this State be issued, and this order is the one now under review. action is based upon the amendment to section 9 of the railroad law. adopted and embodied in act No. 90 of the public acts of 1891, which contains the following provision: "One thousand mile tickets shall be kept for sale at the principal ticket offices of all railroad companies in this State, or carrying on business partly within and partly without the limits of this State, at a price not exceeding twenty dollars in the lower peninsula and twenty-five dollars in the upper peninsula. Such one thousand mile tickets may be made non-transferrable, but, whenever required by the purchaser, they shall be issued in the name of the purchaser, his wife and children, designating the name of each on each Each one thousand mile ticket shall be valid for two years only, after date of purchase." In the same section of the statute it is provided that the rates of fare shall not exceed 2 cents a mile for carriage of passengers by railroads whose gross earnings are more than \$3,000 per mile, 21 for roads whose gross earnings are more than \$2,000 and less than \$3,000, and for companies whose earnings are less than \$2,000 per mile 3 cents per mile, except in the upper peninsula, where a higher rate is permitted. It is contended that there was error in the ruling below, and various grounds are alleged. First, it is contended that the statute is an attempt on the part of the legislature to provided for the sale of mileage which shall be good outside of the State, and that, as this affects interstate commerce, it is unconstitutional; second, that the charter of the Michigan Southern Railway Company, passed in 1846, which provided that "it shall and may be lawful for said company from time to time to fix, regulate and receive the dues and charges taken for transportation of property and persons on said \* \* \* Provided, Said company shall charge railroad as aforesaid: no greater sum or tolls for the transportation of persons and property than were charged or authorized by the State of Michigan to be taken by the Southern Railroad on the first day of January last,"—is still in force, and, as it was granted prior to the amendment of the constitution reserving the right to alter or amend charters of corporations organized under the laws of the State, that the legislation in question impairs the obligation of contracts, within the doctrine of the Dartmouth College Case, 4 Wheat, 518, and is, for this reason, invalid; third, that, independently of this provision, the act is unconstitutional, for the reason that it is an attempt to compel railroad companies to enter into contracts to be performed in the future, at any time within two years, and is an invasion of the right to the use of property; and in the same connection it is contended that this is in violation of the fourteenth amendment of the constitution of the United States, which provides that no person shall be deprived of property without due process of law; fourth, it is contended that the amendment to the constitution (article 19a, § 1) is a limitation upon the power of the legislature to legislate as to rates and charges of transportation, and limits the right in that regard to the fixing of maximum rates, and that the provision for the issuing of a mileage book is not a fixing of maximum rates of charge, but is a further regulation.

- 1. The first contention cannot be allowed, for the reason that the statute, fairly construed, was intended to limit the use of the mileage ticket to the state of Michigan. It fixes the price of the ticket,—not exceeding \$20 in the Lower Peninsula, and \$25 in the Upper Peninsula. While the language is not very apt, we think it was the clear intention that a ticket, the price of which should be \$20 for 1,000 miles of transportation, would be one entitling the purchaser to carriage in the Lower Peninsula of Michigan, and one at \$25 to carriage in the Upper Peninsula, and that it was not the intention by this reference to locality to fix the place where the tickets should be placed on sale. Thus construed, the statute cannot be held to be a regulation of interstate commerce.
- The answer of respondent sets out that in 1846 a special charter. containing the provisions above quoted, was granted to the Michigan Southern Railroad Company; that subsequently the Michigan Southern Railroad Company, under an act of the legislature of the State of Michigan, became consolidated with a corporation of the state of Indiana. known as the Northern Indiana Railroad Company, thereby forming the Michigan Southern & Northern Indiana Railroad Company, which company then succeeded to all the rights, franchises, property, and powers of the Michigan Southern Railroad Company; and that the Michigan Southern & Northern Indiana Railroad Company afterwards, under due legislative authority in that behalf, entered into consolidation with certain other railroad companies, organized under the laws of Indiana, Ohio, Pennsylvania, and New York, respectively, and thereby formed the said respondent, the Lake Shore & Michigan Southern Railway Company; and that this respondent thereby acquired all the rights, franchises, powers, and property of the Michigan Southern Railroad Company and the Michigan Southern & Northern Indiana Railroad Company, and holds and is entitled to all the rights, franchises, powers, and privileges granted in and by the charter aforesaid, and by the acts of the legislature of the said state. The last consolidation set up was under act No. 82 of the laws of 1855, entitled "An act to provide for the incorporation of railroad companies." Section 50 provides that "any railroad company in this state, forming a continuous or connected line with any other railroad company, may consolidate with such other company, either in or out of \* \* \* Such new corporation shall this state, into a single corporation. possess all the powers, rights and franchises conferred upon such two or more corporations, and shall be subject to all the restrictions and perform all the duties imposed by the provisions of their respective charters or laws of organization, not inconsistent with the provisions of this act." By section 52 it is provided that, "upon the election of the first board of directors of the corporation created by said agreement, all and singular the rights and franchises of each and all of said two or more corporations, parties to such agreement, all and singular their rights and interests in

and to every species of property and things in action, shall be determined to be transferred to, and vested in such new corporation, without any other deed or transfer; and such new corporation shall hold and enjoy the same, together with all the right of way and other property, in the same manner, and to the same intent as if the said two or more corporations, parties to such agreement, should have continued to retain the title and transact the business of such corporations." It is contended by the defendant that, under this statute, where a consolidation takes place of a corporation organized and existing under a special charter, as did the respondent company, with a corporation or corporations existing under the laws of another state, the effect is not to annihilate the previously existing Michigan corporation, but that upon the consolidation the original corporation brings to the new entity the powers and privileges already possessed, and that the consolidated company simply exercises in each jurisdiction the powers the corporation there chartered had possessed, and succeeds there to its privileges. The learned counsel for respondent cites, as sustaining this view, State Treasurer v. Auditor General, 46 Mich. 224, 9 N. W. 258; Chicago & N. W. Ry. Co. v. Auditor General, 53 Mich. 79, 18 N. W. 586; Nashua & L. R. Co. v. Boston & L. R. Co., 136 U. S. 356, 10 Sup. Ct. 1071; People v. New York, C. & St. L. Ry. Co., 129 N. Y. 474, 29 N. E. 959.

Passing the consideration of these cases for the time, and having reference to the terms of the act under which the consolidation took place, it is to be observed that this act constituted the consolidated entity a "new corporation," if we regard the terms employed in the statute, in section 50, above quoted, which limits the rights and franchises derived from the old corporation, and to be exercised by the new, to such as are not inconsistent with the provisions of the act; and in section 52, relied upon by respondent, as well, the new creation is referred to as "such new corporation." It is also a corporation created under a general law. At the time of its creation, section 1 of article 15 of the constitution provided that corporations might be formed under general laws, and that "all laws passed pursuant to this section of the constitution may be amended, altered or repealed." It was said in Muller v. Dows, 94 U.S. 444, of such a corporation, so formed: "The two companies became one, but in the state of Iowa that one was an Iowa corporation, existing under the laws of that state alone." In State Treasurer v. Auditor General, 46 Mich. 224, 9 N. W. 258, and Chicago & N. W. Ry. Co. v. Auditor General, 53 Mich. 79, 18 N. W. 586, the question was as to what portion of the earnings of the consolidated company was subject to taxation in this state. In State Treasurer v. Auditor General it was held that the Lake Shore & Michigan Southern Railway was not a corporation formed under the general railroad law, within the meaning of the clause of the statute providing for taxing railroad companies so formed. In Chicago & N. W. Ry. Co. v. Auditor General the same doctrine was held. It was said in the latter case: "We appreciate very fully the difficulty of determining under all circumstances in what light we are to regard the anomalous organizations which are formed by the consolidation of two or more corporations which have received their corporate powers from different sovereignties." The case of Peik v. Railway Co., 94 U. S. 164, was cited with approval. In that case it was held that the state in which the road

lay may legislate for the consolidated company in that state precisely as before the consolidation. Neither of the two Michigan decisions determined what legislative control the legislature of the state has over that portion of the road which lies within the state, or as to the conduct of business within the state. And this may also be said of People v. New York, C. & St. L. Ry. Co., 129 N. Y. 474, 29 N. E. 959,

The companies at present forming the respondent derived rights under the law permitting a consolidation, and, while there may be difficulty in subjecting so much of the property of the consolidated company as lies without the state to our jurisdiction, or in controlling the transactions of the corporation itself without the state, or in fixing taxation upon a basis which rests upon its earnings outside the state, it is not apparent why the company, as to its exercise of corporate functions within the state, is not subject to the terms of the act authorizing its consolidation, as limited by the constitutional provision in force at the time, or why it is not subject to local legislation. Counsel also cite the cases of Tomlinson v. Branch, 15 Wall. 460, and Central Railroad & Banking Co. v. Georgia, 92 U. S. 665. In the former case the act provided that, upon the written consent of all the stockholders of the South Carolina Canal & Railroad Company, the said South Carolina Canal & Railroad Company shall be merged in the said South Carolina Railroad Company. It was held that the South Carolina Railroad Company retained the rights which it had before the merger. The case of Central Railroad & Banking Co. v. Georgia was to the same effect. There the Macon & Western Railroad Company was merged under the name and charter of the said the Central Railroad & Banking Company of Georgia. But in Railroad Co. v. Georgia, 98 U.S. 359, it was held that, where a consolidation took place. the effect was the creation of a new corporation out of the stockholders of the two previously existing corporations. It was said: "The consolidation provided for was clearly not a merger of one into the other, as was the case of Central Railroad & Banking Co. v. Georgia, 92 U. S. The question was raised in a case where this same defendant was a party in interest, in Shields v. State, 26 Ohio St. 86. In that case the court say: "Among the companies forming this consolidation were two Ohio companies, chartered and organized before the adoption of the present constitution, and whose charters were therefore not subject to the provision of the present constitution which gives to the legislature the power of alteration, amendment, and repeal of charters. consolidation took place in 1869, and was effected in all respects in pursuance of the act of April 10, 1856; and the claim is that a consolidation under that act is to be regarded in law as a surrender or relinquishment of the several individual charters of the companies so uniting, and the acceptance of a charter de novo from the state." The court held that the consolidation constituted a new corporation, and the fact that it was formed out of old defunct corporations did not make it any the less a corporation created by the legislature. It was said: "It is not the material out of which it is formed, but the plastic hand that formed it, that we look to for its character and status under the constitution." This case was affirmed on appeal by the federal supreme court in 95 U.S. 319. question was again before the federal court in St. Louis & S. F. Ry. Co. v. Gill, 156 U. S. 649, 15 Sup. Ct. 484. In that case there was a consolidation of two railroads, operating in Missouri and Arkansas. It was claimed that, notwithstanding this legislation, the railroad company, so far as related to its business in Arkansas, was entitled to fix its rate of charges in accordance with the law of its original corporation. The court said: "It has been frequently decided by this court that a special statutory exemption or privilege, such as immunity from taxation or a right to fix and determine rates of fare, does not accompany the property in its transfer to a purchaser, in the absence of express direction to that effect in the statute;" thus treating the consolidation as a purchase by the new entity.

Passing by the third contention, and considering first the effect of article 19a, § 1, of the constitution, this section reads as follows: "The legislature may, from time to time, pass laws establishing reasonable maximum rates and charges for the transportation of passengers and freight on different railroads in this state," etc. The contention is that this section is a limitation upon the authority of the legislature, and that, as to the fixing of rates, the power is exhausted when maximum rates are established, and that the act in question is not a fixing of maximum rates within the constitutional provision. In the opinion of Mr. Justice Cahill in Wellman v. Railway Co., 83 Mich., at page 624, 47 N. W., at page 499, it is said: "Nor do I think that the constitutional amendment of 1870, before cited, which expressly provides that 'the legislature may, from time to time, pass laws establishing reasonable maximum rates of charges for the transportation of passengers and freight on different railroads in this state,' is no more than declaratory of a power that al-\* \* \* The amendment of 1870 was neither a grant nor a limitation of power. It was a declaration of power already reserved in the constitution, and the amendment served only to put beyond question the right of the legislature, which was before thought to be open to debate." The maxim, "Expressio unius est exclusio alterius," is not wholly inapplicable in the interpretation of constitutional provisions. See End. Interp. St. § 533; Cooley, Const. Lim. pp. 78, 79. Speaking of this rule as applied to the construction of constitutional provisions, Mr. Justice Green, speaking for the court in Williams v. Mayor, etc., 2 Mich. 563, said: "That certain legal maxims or rules of construction, which have been found generally applicable, afford important aid in arriving at the intention of those who framed the law, every lawyer will admit; but that there are some instruments or laws to which such maxims cannot be strictly applied, without doing manifest violence to the plain intent of the framers of the law, is also a matter of common experience. This is especially true in the construction of state constitutions, as will appear manifest when we consider their character and objects." See, also, Com. v. Hartman, 17 Pa. St. 118; People v. Wright, 6 Colo. 92; In re Thirty-Fourth St. R. Co., 102 N. Y. 343, 7 N. E. The constitution of New York placed certain restrictions upon street-railway companies. The legislature, by a general act, embodied the constitutional conditions, and annexed a third or additional condition not enjoined by the constitution. The contention was made that the constitution had prescribed the conditions upon which street railroads might be constructed, and, by implication, thereby enjoined the imposition by the legislature of conditions other than those prescribed

therein. The court of appeals of New York said: "But the constitution neither by express language nor by implication abridges the legislative power over the subject outside of the matters particularly enumerated. It needs no citation of authorities to sustain the postulate that, except as restrained by the constitution, the legislative power is untrammeled and supreme, and that a constitutional provision which withdraws from the cognizance of the legislature a particular subject, or which qualifies or regulates the exercise of legislative power in respect to a particular incident of that subject, leaves all other matters and incidents under its Nothing is subtracted from the sum of legislative power except that which is expressly or by necessary implication withdrawn. The legislature is prohibited from granting a franchise to construct a street railroad, except upon certain specified conditions. But it is not prohibited from annexing further conditions not inconsistent therewith, and whether other conditions are necessary or proper is a matter resting in the wisdom and discretion of the legislature." 102 N. Y. 343, 7 N. E. 176.

It is said that the statute having fixed the maximum rate of 3 cents as to certain roads earning less than \$2,000 per mile, and 21 cents and 2 cents, respectively, for roads earning more than \$2,000 per mile, this exhausts the power of the legislature, and that no power exists to provide for a less rate where mileage books are used. In my judgment, the term "maximum rate," as used in this constitutional provision, means the maximum rate which the company is to be permitted to charge under a given set of circumstances. Under the terms of this act, the company not furnishing mileage books may be compelled to furnish them at the rate of 21 or 2 cents a mile, respectively, or it may charge for the single fare 3 cents. By this same act all roads are entitled to charge 3 cents per mile for a distance not exceeding five miles. It might be said with as much force as the proposition under discussion can be urged that by this provision the legislature has fixed the maximum rate at 3 cents, and thereby exhausted its power. The answer is obvious, viz., that, in fixing the rate at 3 cents for a distance less than five miles (in the Lower Peninsula), the legislature fixed the maximum rate for that service to be paid the road by one making just that contract. If this answer is not valid, the court and counsel in the Wellman Case overlooked wholly a controlling question which would have ruled the case the other way from that in which it was decided. In the case of Interstate Commerce Commission v. Baltimore & O. R. Co., 145 U. S. 263, 12 Sup. Ct. 844, section 2 of the interstate commerce act was under consideration. That section provides "that if any common carrier subject to the provisions of this act shall, directly or indirectly, by any special rate, rebate, drawback or other device, charge, demand, collect, or receive from any person or persons a greater or less compensation for any service rendered, or to be rendered, in the transportation of passengers or property, subject to the provisions of this act, than it charges, demands, collects or receives from any other person or persons for doing for him or them a like and contemporaneous service in the transportation of a like kind of traffic under substantially similar circumstances and conditions, such common carrier shall be deemed guilty of unjust discrimination, which is hereby prohibited and declared to be unlawful." The language of Judge Jackson,

of the circuit, was approved, as follows: "To come within the inhibition of said sections, the differences must be made under like conditions; that is, there must be contemporaneous service in the transportation of like kinds of traffic under substantially the same circumstances and conditions. In respect to passenger traffic, the positions of the respective persons or classes between whom differences in charges are made must be compared with each other, and there must be found to exist substantial identity of situation and of service, accompanied by irregularity and partiality resulting in undue advantage to one, or undue disadvantage to the other, in order to constitute unjust discrimination."

4. It is difficult to define the precise limit of power reserved to the legislature under a provision embodied in the fundamental law, or incorporated in the charter of a corporation, reserving the right to the legislature to alter, amend, or repeal. The question has been before this court in numerous cases, the latest being the case of Attorney General v. Looker (Mich.) 69 N. W. 929, where the authorities are collated. In the case of Detroit v. Detroit & H. Plank-Road Co., 43 Mich. 140, 5 N. W. 275, Mr. Justice Cooley, speaking of the provision of the constitution of the United States which forbids the impairing of obligations of contracts, says that, but for this provision, "the power to amend and repeal corporate charters would be ample without being expressly reserved. The reservation of the right leaves the state where any sovereignty would be if unrestrained by express constitutional limitations, and with the powers which it would then possess. It might therefore do what it would be admissible for any constitutional government to do when not thus restrained, but it could not do what would be inconsistent with constitutional principles. And it cannot be necessary at this day to enter upon a discussion in denial of the right of the government to take from either individuals or corporations any property which they may rightfully have acquired." We think this is a fair statement of the effect of this reservation, and that, if the legislation in question can be construed as depriving the respondent of its property, it is invalid, as conflicting with other constitutional provisions. But we do not think that such is the effect of this legislation. It cannot be said that the right to use property dedicated to a public use in precisely the manner which the owner may choose to use it is a vested right of property. This question has been put at rest by a long line of decisions, beginning with Munn v. People, 69 Ill. 80, and including Wellman v. Railway Co., 83 Mich. 592, 47 N. W. 489.

The chief contention is that because this statute requires the company to enter into contracts for future transportation of passengers, covering a period of two years, it is therefore withdrawing from the company the right to manage its own property, and is, for this reason, invalid. It may be said that every attempt to fix rates of toll or rates for the carriage of passengers or transportation of property to some extent involves an interference with the management and control of its property by the railroad company. Having in mind the common method of conducting railroad business at the present day, the court can take judicial notice of the fact that nearly every railroad in this state does issue, and did, prior to the enactment of this law, issue, mileage books or 1,000-mile tickets. The conditions were not precisely the same, but they were con-

tracts good for one year, and issued at a reduced rate; so that, in the usual conduct of business, time contracts for the transportation of passengers are made. In fact, it would be difficult to conceive of a method of conducting a railroad business which did not involve a contract good for some length of time.

In the brief of the learned counsel for the respondent we are cited to a large number of cases in which it has been held that it is competent for railway companies to make regulations limiting the time within which a ticket may be used, and this is undoubtedly true in the absence of legislation; but we think it cannot be successfully contended that it would not be competent for the legislature to provide that a ticket furnished to a passenger should be good for a definite reasonable time, and, when such legislation was adopted, it would of necessity deprive the company of the power to make rules inconsistent therewith. I confess I cannot share the apprehension that such a regulation as the one here involved will deprive the company of the management of its business. Would any one contend that the legislature has not the power to require railroad companies to keep on sale at their stations tickets of any kind? The compulsory requirement of this act may, indeed, be denounced as an attempt to conduct the business of the company, but I apprehend that extended argument is not necessary to defend the right of the legislature to make such requirement. In Elliott on railroads (section 1598) it is said that "in some of the states it is provided by statute that tickets shall be good for a certain number of years, notwithstanding any limitation thereon." I am not aware that these statutes have been attacked. If such enactment be within the power of the legislature, where is the line to be drawn short of that fixed by the federal supreme court, which is that legislation of this character must not be so unreasonable as to deprive the company of the use of its property? The only case to which our attention has been called in which the subject of legislation requiring the sale of mileage books has been under consideration is that of Attorney General v. Old Colony R. Co., 160 Mass. 62, 35 N. E. 252. legislation there under discussion provided for an interchangeable mileage book, good on all the roads of the state. The court divided, a majority of the court holding such legislation to be unconstitutional, in that it required one company to do business upon the credit of another. majority of the court distinctly limit the decision to that ground, and apparently did not find a regulation requiring the issue of mileage books to be unreasonable. Mr. Justice Knowlton, with whom Mr. Justice Holmes concurred, reached the opposite conclusion, and of necessity affirmed the power of the legislature to provide for the issuing of mileage books.

My conclusions are that the regulation is not unconstitutional as applied to roads within the control of the legislature, and that the respondent road, by its consolidation—formed, as it is, by a consolidation under an act passed since the enactment of the constitution reserving the power to alter, amend, or repeal,—is subject to the general control of the legislature, and that the judgment of the circuit court should be affirmed.

Long, C. J., and Moore, J., concurred with Montgomery, J.

Grant, J. (dissenting). By act No. 90, Pub. Acts 1891, the railroad law was amended, fixing the maximum rate for the transportation of passen-

gers at from two to three cents per mile according to the gross earnings of the passenger trains of the various roads. The same act requires all railroad companies in this state, or carrying on business partly within and partly without the state, to keep for sale, at their principal ticket offices, 1,000-mile tickets, to be issued in the name of the purchaser, his wife and children, and to be valid for two years, at the rate of \$20 in the Lower, and \$25 in the Upper, Peninsula. The relator tendered the respondent defendant, \$20, and demanded a 1,000-mile ticket, to be issued in the name of himself and his wife. The respondent refused to accept the money and issue the ticket, whereupon the relator filed a petition in the circuit court for the county of Lenawee, praying for the writ of mandamus to compel the issuance of the ticket. The court below granted the order, and the respondent appealed.

The constitution (article 19a, § 1) provides that "the legislature may, from time to time, pass laws establishing reasonable maximum rates of charges for the transportation of passengers and freight on different railroads in this state," etc. One of the railroads doing business in this state contested in the courts the validity of the above provision, fixing maxi-That provision of the law was held valid. Wellman v. Railway Co., 83 Mich. 593, 47 N. W. 489. That decision held that the reasonableness of the rate was for the sole determination of the legislature, and not for the courts. The case was affirmed in the supreme court of the United States, that court, however, holding that the reasonableness of the maximum rate was for the determination of the courts, and not exclusively in the legislature, and that, whenever that rate was so low as to deprive the railroad companies of a reasonable income from their legitimate investments, the result was to deprive them of their property, or, what is the same thing, the use of it, without due process of law, and therefore void, under the constitution of the United States. Railway Co. v. Wellman, 143 U. S. 339, 12 Sup. Ct. 400. It is now the established rule that the question is a judicial one, and that, while the courts cannot establish the charges, they will inquire into their reasonableness, and determine whether the rates are such as to deprive the corporation of its property without due process of law. Railway Co. v. Gill, 156 U. S. 657, 15 Sup. Ct. 484, and authorities there cited. But the above decisions and many others upon the same subject which are cited in the briefs of counsel do not, in my judgment, bear upon the question now raised. All those cases involve the validity of maximum rates fixed by the legislatures under the implied or express power of the state constitutions. The difficulty which for a long time confronted the courts was not in determining whether the power to fix a reasonable maximum rate existed, but what was the limitation of the power. As late as 1893. the supreme court of Massachusetts, in Attonery General v. Old Colony R. R., 160 Mass. 89, 35 N. E. 252, recognized the existence of the power, but said: "It is not yet settled, however, what the limitations of this power are,—whether it is limited to such rates as a court may deem reasonable, or only to such rates as shall not operate to deprive the railroad companies of their property without reasonable compensation or without due process of law." That question was settled in Railway Co. y. Gill. supra, decided the following year. We are cited to no case, nor

have I been able to find any, which involves a legislative enactment like the one now presented for our determination.

Several defenses are interposed, but I deem it important to refer to but one, which I think is conclusive against the relator, viz.: Does the legislature possess the power, under the constitution of this state, to enact this provision, requiring railroad companies to fix charges below the maximum rates, and compel them to enter into contracts for two years or for any number of years which the legislature may see fit to prescribe? The learned counsel for the relator contend that the power is inherent in the legislature to "regulate, control, and fix the conditions of all contracts between railroad companies and their patrons." They further say: "It is merely a regulation of the public business, which the legislature has a right to regulate. Its apparent object is to promote the convenience of persons having occasion to travel on the road, and to reduce for them the cost of transportation. Its benefit to the public, who are compelled to patronize railroads, is unquestioned. It brings the reduction of rates of two cents per mile within the reach of all persons who may have occasion to make only infrequent trips." No authority is cited which sustains so unlimited a power. If it be sustained, these companies have no control over their affairs and business except to carry out such contracts for common carriage as the legislature may see fit to prescribe. If the legislature may compel these companies to carry married men, their wives and children, at reduced rates, it may also include their servants and employés upon the same ticket, and also the transportation of their goods at reduced rates. It may require the issuance of these tickets to clubs of two or any greater number. It may fix excursion rates at still lower figures, and prescribe the time for which they may be valid. It may make such contracts valid for any number of years. And, under the relator's contention, the courts must determine in each case whether the requirements are reasonable. Certainly, citizens who have invested their money in these corporations are entitled to some control over their business and affairs. It is difficult to understand what control is left to them if this law be sustained. Under the opinion of the learned circuit judge who heard the case, he should have denied the writ. His opinion is against the judgment rendered. He used the following language: "Upon the other question I care only to remark that this particular provision of the statute, the aid of which is invoked in this case, if constitutional, would seem almost to extend the police power of this state to the practical management of the business of the railway companies, and leave no line beyond which it could be said that the state cannot assume to control what are practically the private business affairs of the corpora-And it certainly will not be contended in the present condition of the law that there are not elements of the business affairs of railroad companies with which the state has no more right to interfere than with those of private individuals. The state has assumed to exercise its police power over railroad companies upon the theory of protection to the public from injuries which might arise from improper construction of its road or rolling stock, or from faulty operation of them. Thus, it assumes to control the construction of it engines and cars so far as the question of the safety of persons using them may require, the operation of its trains

so far as it is necessary to protect the persons on them and those who may rightfully be upon its tracks, the grade at which they may cross one another, with the same idea in view, and as well the maximum rate of fare so far as necessary to protect the public from extortion; but mere questions of expediency have not been considered the subject of legislative control. Considerations of this nature would tend to lead me to the conclusion that this law ought not to be sustained, did I feel myself free to pass upon such a question." It was, in my opinion, the clear duty of the circuit judge to enter judgment in accordance with his convictions.

The constitution grants the legislature the right to fix a reasonable This excludes the power to fix any other rate. It affords the public ample protection against exorbitant and unjust charges. affirmative grant of power often, though not always, implies an exclusion of other supervision upon the same subject. Mr. Story says: "The truth is that, in order to ascertain how far an affirmative or negative provision excludes or implies others, we must look to the nature of the provision, the subject-matter, the object, and the scope of the instrument. These, and these only, can properly determine the rule of construction. There can be no doubt that an affirmative grant of power in many cases will imply an exclusion of all others." Story, Const. § 448. Does not the express power to fix a maximum rate exclude the power to fix a minimum or any other rate? If this same act had fixed a minimum of two cents per mile, and prohibited the carriage of passengers at a less rate, would counsel contend for the existence of these powers? The result of such a provision would be to prevent railroads from giving cheap excursions. now so common, and which accommodate and benefit the people. object of this constitutional provision is to prevent the imposition of extortionate or unreasonable charges, and to secure to the traveling public a just and reasonable charge, one which would give a reasonable return to investors, and a fair and reasonable rate to the public. The legislature performed this function by fixing 2, 21 and 3 cents per mile as just and reasonable maximum rates. The public are thereby protected. Why should not all contracts within that rate be left to the railroad companies? Is not that a reasonable construction to be placed upon this clause of the constitution? If these companies choose to accommodate the public by offering reduced rates, by mileage, coupon, club, or excursion tickets, is not that within the reasonable maximum rate fixed, and a proper matter for their own control? I can find no reason or excuse for holding otherwise.

If, however, I am wrong in the conclusion that this express power inhibits the exercise of any other upon the same subject, I am still of the opinion that the act cannot be sustained under the police power inherent in the legislature under the constitution. The legislature does not possess all the powers not inhibited by the constitution, and, when one seeks to defend its acts under the police power, he must be able to show that the act is for the protection of the lives, persons, property, or rights of citizens, or to the safety and good order of society. The police power inherent in the legislature is not broad enought to cover every legislative interference with property or personal rights, upon the ground that there is no express inhibition of the power to be found in the constitution. Every person has the inalienable right to the possession, use, and control

of his property and business, so long as he observes the common-law maxim, "Sic utere tuo ut alienum non lædas," The legislature may authorize municipalities to determine of what material the merchant or manufacturer shall construct his buildings within the city limits, to see that they are properly built, and that the plumbing, sewerage, etc., are sanitary. These things are essential to protect the health and lives of employés, patrons, and the public generally. The general public is interested, and hence the legislative interference with what are otherwise the natural rights of individuals is essential and necessary for the good of But if the legislature should attempt to fix the size of the building, the dimensions of its rooms, the price of merchandise to be bought and sold, when he should open or close his store or factory, and the terms of contracts he should make, the courts would not hesitate to declare such acts unconstitutional, notwithstanding no express inhibition can be found in the constitution. The common law secured these rights to the citizens, because their exercise created no injury to others, nor was of concern to the public. They were within the maxim above quoted. When the constitution was adopted, these common-law rights were preserved, and it was unnecessary to declare in the constitution that they remained sacred and intact, and that the legislature could not interfere The constitution was adopted with reference to these existing rights, and impliedly inhibits the legislature from infringing upon them. Among these inherent rights of the citizen is the power to conduct his own business, and to make such contracts as he pleases. right is the same whether the citizen be a natural or an artificial person. Only when the general public are concerned, for their own safety and protection, may the people, through the legislature, protect themselves against exorbitant charges or the conduct of business in a manner injurious to the public.

The constitution is entirely silent upon the subject of contempts: yet it is held that the legislature cannot take away this power from the courts, which has from the earliest time been inherent in them. Cadwick (Mich.) 67 N. W. 1071. We there said: "The constitution leaves this power existing in the court, as it was at the common law." So the constitution leaves to the citizen the control of his property and business, subject to the rules of the common law. "Constitutions are to be construed in the light of the common law, and of the fact that its rules are still in force." 3 Am. & Eng. Enc. Law, 679. Justice Cooley states the rule thus: "The limit to the exercise of the police power in these cases must be this: The regulations must have reference to the comfort, safety, or welfare of society." Cooley, Const. Lim. 577. Black says it includes "all such regulations as may be necessary for the safety and good order of society," and adds: "It is evident that the term 'police power' is a very flexible and comprehensive expression, and difficult of exact definition. But it must not be extended beyond its necessary and proper limits. When the police power has fulfilled the essential objects of its reservation to the state, it has also reached the boundaries of its legitimate exercise." Black, Const. Prohib. §§ 61, 62. fulfilled "the essential object," in this case by fixing a maximum rate? No claim is made that this maximum rate is not a sufficient protection to the public. Upon what principle of law or justice, then, can this power be invoked by the state to control contracts between its citizens which do not injuriously affect the public or any member thereof? If this legislation cannot be upheld under the police power (and, as already shown, this is virtually conceded), it logically follows that the legislature is vested with unlimited power to regulate and control the management of these corporations, solely because the constitution does not in express terms prohibit. This is a doctrine which, in my judgment, finds no support in authority or reason. Whether railroad companies should issue the tickets in question is a matter of little importance, but the establishment of a rule of control is of great importance. All roads issue 1,000-mile tickets. Some issue these family tickets, and some issue 1,000-mile tickets upon which any number of passengers may ride. When the police power is set aside, the door is open to the legislature to prescribe contracts of all kinds. This is well stated in the opinion of the circuit judge. A somewhat extended discussion of the question is therefore appropriate.

The general rule is not questioned that "the authority of courts of justice to declare void any legislative enactment must be found in express constitutional provisions, limiting legislative power." Text writers and courts have recognized that this rule has its exceptions, and that there are implied as well as express inhibitions. The learned author, Justice Cooley, after stating the general rule, says: "It does not follow. however, that in every case the courts, before they can set aside a law as invalid, must be able to find in the constitution some specific inhibition which has been disregarded, or some express command which has been \* \* \* The maxims of Magna Charta and the common law are the interpreters of constitutional grants of power, and those acts which by those maxims the several departments of government are forbidden to do cannot be considered within any grant or apportionment of power which the people in general terms have made to those depart-Cooley, Const. Lim. 174, 175. In the early case of Calder v. Bull, 3 Dall. 386, the supreme court of the United States said: "I cannot subscribe to the omnipotence of a state legislature, or that it is absolute and without control, although its authority should not be expressly restrained by the constitution or fundamental law of the state. people of the United States erected their constitutions or forms of government to establish justice, to promote the general welfare, to secure the blessings of liberty, and to protect their persons and property from violence. The purposes for which men enter into society will determine the nature and terms of the social compact; and, as they are the foundation of the legislative power, they will decide what are the proper objects of it. The nature and ends of legislative power will limit the exercise of This fundamental principle flows from the very nature of our free republican governments: that no man should be compelled to do what the laws do not require, nor to refrain from acts which the laws permit. There are acts which the federal or state legislature cannot do without exceeding their authority. There are certain vital principles in our free republican governments which will determine and overrule an apparent and flagrant abuse of legislative power, as to authorize manifest injustice by positive law, or to take away that security for personal liberty or private property for the protection whereof the government was established. An act of the legislature (for I cannot call it a law) contrary

to the first great principles of the social compact cannot be considered a rightful exercise of legislative authority. The obligation of a law in governments established on express compact and on republican principles must be determined by the nature of the power on which it is founded. A few instances will suffice to explain what I mean: A law that punished a citizen for an innocent action, or, in other words, for an act which, when done, was in violation of no existing law; a law that destroys or impairs the lawful private contracts of citizens; a law that makes a man a judge in his own cause: or a law that takes property from A., and gives it to B. It is against all reason and justice for a people to intrust a legislature with such powers; and therefore it cannot be presumed that they The genius, the nature, and the spirit of our state governments amount to a prohibition of such acts of legislation, and the general principles of law and reason forbid them. The legislature may enjoin, permit, forbid, and punish. They may declare new crimes, and establish rules of conduct for all its citizens in future cases. They may command what is right, and prohibit what is wrong; but they cannot change innocence into guilt, or punish innocence as a crime, or violate the right of antecedent lawful private contract, or the right of private property. To maintain that our federal or state legislature possesses such powers, if they had not been expressly restrained, would, in my opinion, be a political heresy, altogether inadmissible in our free republican government." In Durkee v. Janesville, in discussing the power of the legislature to exempt the city of Janesville from the payment of costs in tax cases brought against the city when the city was defeated, the court said that they "care very little whether it is placed on those fundamental principles of law and justice which, in our form of government, it has been held no legislative body can override, even though not prohibited by the written constitution, or upon the provisions of the constitution itself, some of which clearly forbid the enactment of such laws." 28 Wis. 467. These two cases were cited with approval in a unanimous opinion by this Wilder v. Railway Co., 70 Mich. 382, 38 N. W. 289. See, also, Park v. Press Co., 72 Mich. 560, 40 N. W. 731. In the noted and leading case in this state of People v. Salem, 20 Mich. 452, it was vigorously urged by two eminent lawyers that the power of the legislature to authorize municipalities to pledge their credit for the construction of railroads was not expressly inhibited by the constitution, and therefore must be held to exist. The court took the opposite view, and in the majority opinion, written by Justice Cooley, said: "There are certain limitations upon this power not prescribed in express terms by any constitutional provision, but inherent in the subject itself, which attend its exercise under all circumstances, and which are as inflexible and absolute in their restraints as if directly imposed in the most positive form of words." It may be proper here to remark that that case held that "railroads are no longer public works, but private property. Individuals. and not the state, own and control them for their own profit. The public may reap many and large benefits from them, and, indeed, are expected to do so, but only incidentally, and only as they may reap similar benefits from other modes of investing private capital." 20 Mich. 485. See, also, page 489 of the same case. Justice Christiancy, a learned jurist, said in People v. Jackson & M. Plank-Road Co., 9 Mich. 306: "Powers the exercise of which can only be justified on this specific ground [the police power], and which would otherwise be clearly prohibited by the constitution, can be such only as are so clearly necessary to the safety, comfort, or well-being of society, or so imperatively required by the public necessity, as to lead to the rational and satisfactory conclusion that the framers of the constitution could not, as men of ordinary prudence and foresight, have intended to prohibit their exercise in the particular case, notwithstanding the language of the prohibition would otherwise include it."

Now, let us apply to the present case the rule given by Justice Cooley, that the "regulation must have reference to the comfort, safety, or welfare of society." Certainly, it does not affect or promote the comfort or safety of society, or any member of it. The learned counsel say: "Itsapparent object is to promote the convenience of persons having occasion to travel." In what way does it promote this convenience? It can promote the relator's convenience only by permitting him to buy one ticket instead of two or more. This is too trifling a convenience to deserve consideration. I am not aware of any decision holding that mere convenience is a test for the exercise of the police power, but, if it were, the law would not regard the purchase of one ticket instead of two ormore a public convenience. Counsel further say: "It brings the reduction of rates of two cents per mile within the reach of all persons who may have occasion to make infrequent trips." Do those "who have occasion to make only infrequent trips" constitute the general public? The provision is not for the benefit or convenience of those who travel on business, for it is the universal custom of railroads to issue 1,000-mile tickets to individuals. Obviously, it will not benefit the great mass of the people, few of whom would expend \$20 or \$25 at one time on a ticket. sole benefit is a pecuniary one to the rich and well to do, who would purchase such tickets for visiting or pleasure. Counsel do not appear to seriously claim that the requirement comes within the rule above stated, but rest their contention upon the broad proposition that the legislature may absolutely control the management of railroad corporations, because they are engaged in a public business; that is, a business in which the general public are interested. The argument that this requirement of the statute is essential to "the comfort, safety, or welfare of society" refutes itself, and cannot be sustained upon the principle of inherent police power.

The argument of counsel logically leads to the conclusion that the legislature may manage and control the business of the railroads of this state just as fully and completely as it could if the state owned them. The state did once own three railroads, of which the respondent was one, and managed them. It did not make a success of the business, and sold them to private parties. Is it possible to hold that the state, by implication, reserved the exclusive right to manage, direct, and control them, and determine what contracts they should make, and then that the courts should determine whether they were reasonable? No such reservation is found in the articles of sale or in any law of the state under which other roads have been constructed. Upon what principle can courts read such reservation into the law? Neither legislatures nor judges are experienced in the business of running railroads. Why

should the former be authorized to make contracts for them, and the latter to determine their reasonableness, when such contracts have no "reference to the comfort, safety, or welfare of society?" The property of railroads is private property. Neither the state nor the public has a penny invested in them. Private capital has contributed every dollar to their construction and equipment. Their owners have built them for private profit, and not as public benefactors; otherwise, the Salem Case was wrongly decided. Railroad companies are common carriers, pure and simple. They are not public corporations in the sense that municipal corporations are public. They are termed "quasi public corporations" only because the general public may deal with them, are entitled to have themselves and their goods carried by them, and are therefore subject to those regulations which are necessary for the protection of the public. This proposition is well stated in the opinion of the learned circuit judge above quoted. The mere fact that the constitution and the statute have given these common carriers the power to obtain a right of way over private property by agreement or condemnation does not confer upon the legislature the power to control their management, as if they were the sole property of the state. Individuals, in their natural capacity, may build a railroad over their own lands, and over the lands of others, where, by agreement, they obtain the right of way, and may hold themselves out to the public as common carriers of freight and passengers. The public would have the same right in such a common carrier as they would have in a corporate common carrier organized under the general law of the state. The fact that a right of way may be condemned for the benefit of the common carrier, as well as for the public, cannot logically be held to make such common carrier a strictly public corporation, over which the legislature has the same control as it has over municipal corporations or over its own property. Article 15 of the constitution treats of corporations. Section 9 authorizes corporations, other than municipal, to take private property for public use; that is, a use in which the public have a public interest, and in which the private corporation has a private interest. Section 15 authorizes municipalities to take private property for public improvements. Section 14 of article 18 authorizes the taking of land for private roads. We need not discuss to what extent these provisions involve the exercise of the power of eminent domain. "Eminent domain is the right or power of a sovereign state to appropriate private property to a particular use, for the purpose of promoting the general welfare." Lewis, Em. Dom. § 1; 6 Am. & Eng. Enc. Law, 511. In its original and strict sense, it implies that the state takes the land, and compensates the private person for his damages. wrote: "When this is done, the state is bound to make good the loss to those who lose their property." It is now universally held that this right may be delegated to private parties, corporate or individual. But I submit that such delegation to private parties does not take away from them all their common-law rights, and vest them in the State, subject to the judgment of courts as to the reasonableness of the control exercised by the State.

It follows that the inherent power in the legislature to fix rates of carriage by railroads is based upon precisely the same principle as is the power to fix the rates to be charged by all common carriers, such

as hackmen, ferrymen, and other carriers of persons and of freight. No one would contend that the legislature could require hackmen or ferrymen or owners of omnibuses to enter into contracts with their patrons to carry them for two years at a rate below the amount otherwise fixed by law, or that they should carry married men and their families at reduced rates. The legislature of Illinois passed a law fixing a maximum charge for elevating and storing grain. The law was attacked as unconstitutional, but was sustained by the supreme court of the United States, upon the ground that the public had an interest in the business. and it was therefore subject to the control of the legislature so far as fixing the rates was concerned, thereby protecting the public from exorbitant charges. Munn v. Illinois, 94 U.S. 113. The same principle is the basis for the exercise of the police power in regard to railroads, elevators, hacks, ferries, etc. If the legislature does not possess the power in the one case to compel the party, whether natural or artificial, to enter into contracts for the future, neither does it in the other. This subject is so fully and exhaustively treated in both the majority and minority opinions in that case that I will not discuss it further; but, for the purpose of showing the basis upon which courts have sustained the legislative power to fix maximum rates, I quote the following from the majority opinion: "When one becomes a member of society, he necessarily parts with some rights or privileges which, as an individual not affected by his relations to others, he might retain. A 'body politic,' as aptly defined in the preamble of the constitution of Massachusetts, 'is a social compact by which the whole people covenants with each citizen, and each citizen with the whole people, that all shall be governed by common laws for the common good.' This does not confer power upon the whole people to control rights which are purely and exclusively private (Thorpe v. Railway Co., 27 Vt. 143); but it does authorize the establishment of laws requiring each citizen to so conduct himself, and so use his property, as not unnecessarily to injure another. This is the very essence of government, and has found expression in the maxim 'Sic utere tuo ut alienum non lædas.' From this source came the police powers, which, as was said by Mr. Chief Justice Taney in the License Cases, 5 How. 583, 'are nothing more nor less than the powers of government inherent in every sovereignty; \* \* \* that is to say, the power to govern men and things.' Under these powers, the government regulates the conduct of its citizens one towards another, and the manner in which each shall use his own property, when such regulation becomes necessary for the public good. In their exercise, it has been customary in England from time immemorial, and in this country from its first colonization, to regulate ferries, common carriers, hackmen, bakers, millers, wharfingers, innkeepers, etc., and, in so doing, fix a maximum of charge to be made for services rendered, accommodations furnished, and articles sold." The opinion cites Allnutt v. Inglis, 12 East, 527, in which was involved the right to charge arbitrary rates for storage, and quotes from the opinion in that case as follows: "But, though this be private property, yet the principle laid down by Lord Hale attaches upon it,—that, when private property is affected with a public interest, it ceases to be juris privati only; and, in case of its

dedication to such a purpose as this, the owners cannot take arbitrary and excessive duties, but the duties must be reasonable."

The act, moreover, seriously interferes with the power of subsequent legislatures to change and increase the maximum rate should the financial condition of the railroad companies appear to demand it. Thousands of contracts would undoubtedly have been made which would run two years after the act of a subsequent legislature increasing the rate. It is furthermore obvious that parties acting upon the probability of a repeal of the previous law, and the enactment of another increasing the rate, would purchase tickets by the thousand. The legislature could not annul the contracts made under the prior law. A contract valid when made is valid till executed, and the legislature could not annul If they make these contracts to extend over two years, I see no reason why they may not be made to extend over four, eight, or ten, nor do I see any grounds upon which courts could hold them unreason-It can make no difference whether a contract is entered into voluntarily or by a provision of the law. They are equally valid and binding. The State cannot direct that to be done which it could not do itself were it engaged in the business. If this railroad were owned by the State, as it once was, and the State should make such contracts extending over two or more years, it would be held to the fulfillment of its contracts, even if it were dishonest enough to attempt to repudiate them. It is immaterial that some railroad companies have issued tickets of the kind provided by this act, or that the respondent has issued 1,000-mile tickets to single individuals. The power of the legislature is not to be tested by the voluntary acts of the parties over whom control is sought to be exercised. Because common carriers have made contracts with their patrons, the legislature is not therefore authorized or justified in enacting that such contracts shall be made. rules of construction must apply as would be applied if 1,000-mile tickets had never been issued, and the legislature were attempting for the first time to compel their issuance. If the legislature possessed the power to so enact, subject to reasonableness, the fact that such contracts had been voluntarily made would be evidence of the reasonableness of the law compelling them, but is of no force whatever in determining whether the power exists. Probably, all railroad companies have issued excursion tickets at less than a cent a mile, and valid for a few days. Does this fact authorize the legislature to enact that such companies must give these excursions, and to determine how often, at what rate, and the time within which the tickets shall be good for Is this within the constitutional power of the legislature, either express or implied, to protect the public from extortion by fixing reasonable maximum rates? The opinion of the court should be affirmed, but its judgment was erroneous, and should be reversed, and the petition dismissed, with the costs of both courts.

Hooker, J. I concur in the conclusion reached by my Brother Grant. Our constitution adopted in 1850 provides that "the legislature may, from time to time, pass laws establishing reasonable maximum rates of charges for the transportation of passengers and freight on different railroads in this State, and shall prohibit running contracts between

such railroad companies whereby discrimination is made in favor of either of such companies owning connecting or intersecting lines of railroad." Const. Mich. art. 19a, § 1. Acting upon this authority, the legislature fixed a maximum rate per mile for the transportation of passengers which the railroads might charge. The first attempt to do more was by an act which recognized the short haul, and allowed a higher rate per mile for short distances than for long. It is now proposed by the act under consideration to discriminate in favor of the passenger who shall purchase transportation in large quantities, by giving him a lower rate, and to give special advantages to men of family. Will the next step be a law requiring the sale of transportation for freight at a reduced rate to large shippers? Without discussing the propriety of discrimination by the railroad companies, based upon competition and common business principles, we may well doubt the validity of legislation requiring it. The interstate commerce act seems to have been designed to prevent the very thing that this law requires. I have doubts of the constitutionality of legislation which does more than to assure to any person the right of carriage upon payment of the ordinary lawful fare. Under the constitution, our legislature may fix a maximum rate, and, while the question of discrimination growing out of the long and short haul was not discussed, the validity of such legislation may be settled by the Wellman Case, 143 U. S. 339, 12 Sup. Ct. 400. I am of the opinion, however, that the legislature has no power to say that a ticket shall be sold to one man cheaper than to another, or that it shall have a broader effect, and therefore a greater value, to one than to another, depending upon a willingness to purchase the right to transportation in large quantities, or upon the fact that the purchaser has a family. It might as well be made to depend upon his age, occupation, poverty, or necessity, as upon his ability to purchase in quantities, or to have and support a family. Again, the word "maximum" cannot be ignored. It has some use in the constitutional provision. To my mind it excludes the power of discriminatory legislation, leaving it to the railroad companies to make lawful concessions to their patrons as their business interests may require or permit.

(NOTE BY COMMISSIONER.—For valuable legal opinion upon the subject of the special charter involved in the above case, and as well upon the validity and effect of other special charters, see Commissioner of Railroads Report, 1890, page lxix, the opinion being by Messrs. Atkinson, Carpenter, Brook and Haigh, attorneys-at-law, and ex-Judge Marston, of counsel.

See also valuable opinion prepared by the Hon. D. D. Aitken, attorney-at-law, and Mr. Fred H. Britton, as contained in the Detroit Evening News of dates April 29, May 2 and May 6, 1895; files of which paper can be found in the State Library at Lansing.

See also briefs of counsel for and against relator in the case of Hazen S. Pingree versus the Michigan Central Railroad Company, now pending in the Wayne County Circuit Court this date; copies of which can no doubt be obtained from the Clerk of the Court.)

# SUPREME COURT OPINION IN THE CASE OF MANISTEE & GRAND RAPIDS RAILWAY COMPANY VS. AUDITOR GENERAL.

An important decision relative to the computation, assessment and collection of railroad taxes has been handed down by the Supreme Court of this State and the same is herewith given in full.

#### MANISTEE & GRAND RAPIDS RY. CO. VS. AUDITOR GENERAL.

Opinion filed December 15, 1897.

RAILROAD COMPANY—TAXATION—ACT 174 P. A. 1891 CONSTRUED—FAILURE OF COMMISSIONER OF RAILWAYS TO COMPUTE TAX.

The exemption in Act 174, Public Acts of 1891 providing that "the rate of taxation fixed by this act or any other law of this State shall not apply to any railway or railroad company hereafter building or operating a line of railroad within this State, north of parallel forty-four of latitude, until the same has been operated for the full period of ten years, etc., held not to apply to a corporation which organized and had entered into the construction of its line of road nearly two years before the time the act became operative, and, at the time the act took effect, had nearly two-thirds of its line in such condition that it was running trains over it and earning freight.

The provisions of Section 3358, Howell's Statutes as to the time when the Commissioner of Railroads shall compute the amount of tax due, is directory merely, and

not mandatory as to time.

Where a Railroad Commissioner in former years has failed to compute the taxes, a change in the incumbent of the office, held not to effect the right of the State to have the computation of taxes to become due from a railroad company, made and filed.

The exemption in Act 174 Public Acts of 1891, applies to and relieves from taxation complete lines of railroad the whole of which have been built and operated since the act took effect, and not continuations of, or additions to, existing railroads.

Appeal from the circuit court for Manistee county; James B. McMahon, Judge.

Bill filed by the Manistee & Grand Rapids Railroad Company against Stanley W. Turner, Auditor General. From a decree for defendant, both parties appeal.—Modified and affirmed.

T. J. Ramsdell, for complainant (Hanchett & Hanchett, of counsel).

Fred A. Maynard, Attorney General, for defendant.

Moore, J.

Complainant filed a bill to set aside taxes assessed by the Commissioner of Railroads against the complainant company for the years 1891, 1892, 1893 and 1894.

A decree was entered in the court below setting aside the taxes for 1891 and 1892 and sustaining them for 1893 and 1894. From this decree both parties appeal.

The record shows, that the complainant company is situated north of parallel 44 of latitude, that its road is for the purpose of carrying

freight and that it is not a road for carrying passengers. It was organized Nov. 11, 1889, and in December of that year commenced the construction of its line of road which at the date of the institution of

this proceeding was about thirty-one miles long.

The work progressed so that in August, 1891, about eighteen miles of track was laid and partly ballasted and the company began to haul logs for the owners of timber along the line of its road and to carry camp and mill supplies. Prior to October 2, 1891, it had hauled about five million feet of logs, and two hundred thousand pounds of mill and camp supplies. The road bed was in such condition at this time it was necessary to run the trains very slowly. Prior to October 2, 1891, the receipts for the traffic of the road amounted to about seven thousand dollars.

The complainant reported from year to year the business of the road to the Commissioner of Railroads. The official did not make or file with the Auditor General any computation of any tax against said complainant for the years 1891 and 1892.

In May, 1894, the then Commissioner of Railroads made and filed with the Auditor General a computation of taxes as due from the complainant, not only for the year 1893, but also for the years 1891 and 1892. A year later a like computation was made for the taxes of 1894. It is to set aside these taxes that this proceeding is instituted.

The taxes are assessed by virtue of the provisions of Act 174, Public Laws of 1891, which act took effect October 2, 1891. This act has a provision reading as follows: "Provided further, That the rate of taxation fixed by this act or any other law of this State shall not apply to any railway or railroad company hereafter building and operating a line of railroad within this State north of parallel forty-four of latitude, until

the same has been operated for the full period of ten years, etc."

It is the claim of complainant that its line of road was not built and operated until the act took effect and for that reason it is exempt from taxation. In construing this statute it may be pertinent to inquire what is its purpose. It is a matter of common knowledge that the portion of Michigan lying north of parallel forty-four of latitude is much more sparsely settled than the southern portion of the State and does not offer so inviting a field for the investment of capital. It was undoubtedly the purpose of this legislation to encourage capital to invest in new railroad enterprises in the newer portion of the State. The complainant, however, was organized and entered upon the construction of its line of road nearly two years before the act became operative, and it can hardly be said the purpose of the act was to apply to corporations like the complainant.

Can it be said that the complainants' line of road is included in the phraseology of the statute when it says the rate of taxation shall not apply to "any railroad company hereafter building and operating a line of railroad?" As has already been stated, the complainant had entered upon the construction of its line of road nearly two years before this act took effect and when it took effect had nearly two-thirds of its line in such condition that it was running trains over it and earning freight.

"As taxation is the rule and exemption the exception, the intention to make an exemption ought to be expressed in clear and unambiguous terms, and it cannot be taken to have been intended when the language of the statute on which it depends is doubtful or uncertain. "It is also a very just rule that, when an exemption is found to exist, it shall not be enlarged by construction. On the contrary, it ought to receive a strict construction; for the reasonable presumption is, that the State has granted in express terms all it intended to grant at all, and that unless the privilege is limited to the very terms of the statute, the favor would be extended beyond what was meant."

Cooley on Taxation, page 204.

Lake Shore & Mich. Southern Ry. Co. vs. Grand Rapids, 102 Mich. 374, 380.

We think it clear that the complainant is not within the exemption of the statute.

Complainants claim the the person who was Commissioner of Railroads holding office in 1892 and 1893 is the only officer authorized to make the assessment of the taxes of 1891 and 1892, and that the act of his successor in office in making the assessment of these taxes in May, 1894, was unauthorized and beyond his jurisdiction.

It is argued by counsel for complainant,

"The whole authority for making the assessment by the Commissioner of Railroads if found in I Howell's Statutes, sec. 3358.

The provision is explicit that he shall make the assessment on or before May 15, upon the report of the railroad company made for the preceding year.

The assessment so made becomes due as a tax on the first day of the following July. It then becomes a lien upon the property of the railroad company. Taxation is a proceeding which is adverse to the taxpayer and depends wholly upon statutory provisions. A tax lien cannot be created against the taxpayer's property except by a strict compliance with the provisions of the statute by the officers who assess or levy the tax. This is a fundamental law in taxation.

Cooley on Taxation, pp. 217, 218, 323, 324, 325. 25 Am. & Eng. Ency., pp. 76 to 79, 202. Hoyt vs. East Saginaw, 19 Mich. 39 at 45, 46. Scofield vs. City of Lansing, 17 Mich. 437, 446, 447. Seymore vs. Peters, 67 Mich. 415.

The omission or neglect of the Railroad Commissioner to assess the tax on or before May 15, 1892, upon the report for 1891, or his omission or neglect to assess the tax on or before May 15, 1893, upon the report for 1892, would not make an assessment for such tax made upon the same report by the Auditor General a valid tax, for the reason that the statute confers upon the person holding the office of Commissioner of Railroads the power to assess the tax and confers the power upon no one else. If he omits to do his official duty no provision is made for its being performed by any one."

The logic of this reasoning is, that though the legislature has by express enactment provided for a specific tax, the amount of which can be determined by a simple computation, that its rights to the tax can be utterly lost because an administrative officer does not, through inadvertance or through misinterpretation of the law, or for any other reason, make the computation at the time when he is directed to do so by the statute.

The duty to make the computation required by the statute does not devolve upon the individual in his personal capacity, but it devolves upon the official. And though the computation which ought to have been made in the years 1892 and 1893 was not in fact made until 1894, it was made by the same official, though a different person, who made it as though it had been made at the time designated by the statute.

The rate of the tax was fixed by the legislature, the only effect of the delay so far as the complainant is concerned is that it has not been required to pay the debt due the State as soon as it would have been

obliged to do if the direction of the statute had been followed.

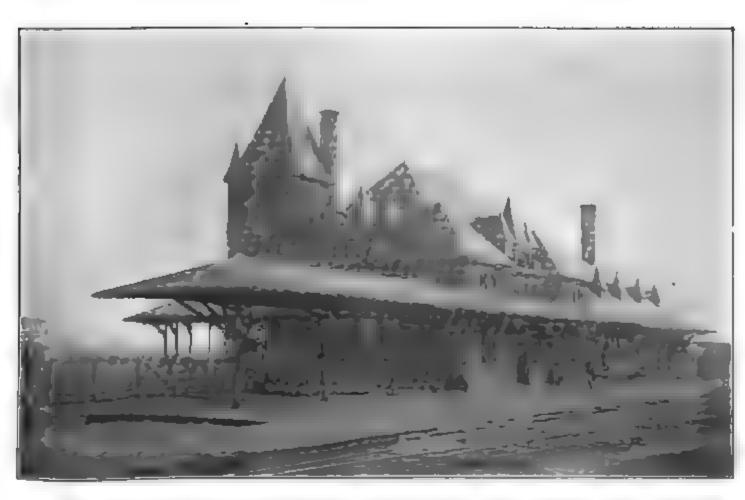
We think the provision of How. Ann. Stat., sec. 3358, as to the time when the Commissioner of Railroads shall compute the amount of tax due is so far directory as to be brought within the decisions of this court in Attorney General vs. Supervisors, 30 Mich. 368, and Oceana vs. Hart, Id. 319. In the last named case there had been a failure by the board of supervisors to spread upon the roll delinquent taxes at the time provided by the statute, and in disposing of the case it was said: county is entitled to a return of money or delinquent taxes to the full amount of the tax levy, and the failure to have such a return rises out of the town treasurer's delinquency. By sec. 1105 of the Compiled Law, all losses sustained by such default are chargeable to the township, and the board of supervisors are required to add the amount to the next year's taxes. It is claimed the failure to add the sum to the next year's taxes leaves no future power in the board to require their collection, as the statute requires no action but for the next year. We have no doubt the time provision is directory and that a failure to act at once does not cancel the debt. It would require clear language to justify the inference that an obligation of this sort can be cancelled by such inaction."

A debt due the State by the complainant cannot be cancelled by such inaction of the Commissioner of Railroads as was shown here.

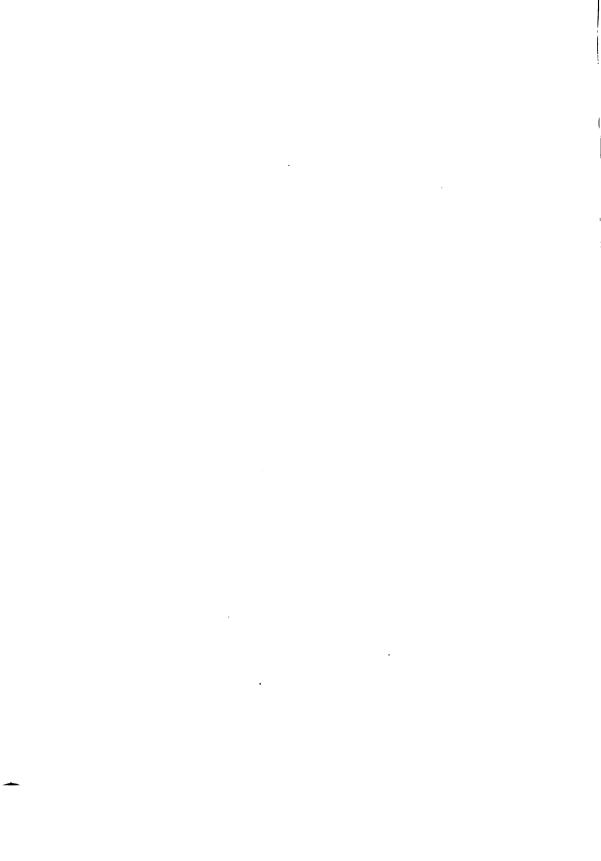
See Cooley on Taxation, p. 289. Sutherland Stat. Const., p. 575.

The complainant contends, that if the court finds from the record that the eighteen miles of road was so far completed as to take the road out of the exemptions of the statute, the decree should be modified so as to subject the road to taxes on the gross earnings of the eighteen miles only. The exemption mentioned by the statute refers to "a line of railroad" hereafter building and operated, and not to such portion of the line as may hereafter be constructed. It is evident that the line of road which the complainant expected to build when it was incorporated was the line which it has since built. The tax should not be confined to the eighteen miles, but should be assessed against the gross earnings of the line, a major part of which was constructed and operated when the law went into effect. The decree cancelling the taxes of 1891 and 1892 should be reversed and the bill dismissed with costs of both courts.

The other justices concurred.



M. C. R. R., NORTH SAGINAW



#### CONCERNING THE STATE'S METHOD OF COMPUTING TAXES.

The present system of levying and collecting taxes on railroads in Michigan is followed in but few of the other states of the union. Nearly all the states have some form of taxation on values, but Michigan still clings to the peculiar system of taxes on earnings. To be sure, the railroad tax in this State is technically referred to in the law as "a specific tax upon the property and business of such railroad corporation operated within the State." But this specific tax is computed upon the gross income, and is in effect a tax upon earnings. These earnings are reported by the railroads themselves to the Commissioner of Railroads, and the latter simply does the clerical work of computing the tax. machinery for collecting it is found in the Auditor General's and State Treasurer's office. The Commissioner of Railroads is required on or before the fifteenth day of May in each year, to make and file with the Auditor General a computation of the amount of tax which will become due on the first of July from each railroad company liable to pay taxes under the provisions of the tax law. The law requires that this computation shall be based upon the report of the railroad company for the preceding year, and provides, to, the penalty for a failure to file such report.

Under the present railroad tax law, a railroad company can, if it desires, practically fix the amount of its tax to suit its own pleasure. The truth of this is apparent when it is considered that each railroad reports its own earnings, from which the taxes are easily determinable by the application of the simple rules of percentage. If there is an effort on the part of a railroad to conceal any portion of its earnings, this effort will generally be rewarded by a reduction in the amount of taxes to be paid. It will be seen that in the case of interstate roads, a portion of whose line is in Michigan, some of the earnings that properly belong to this State could be easily concealed in such a manner as to make detection almost impossible; and even, too, in the purely Michigan roads concealment of part of the earnings is comparatively easy. It is almost impossible to discover errors or concealment, if any be made, without an enormous expense in the employment of experts. The scheme of railroad bookkeeping is so elaborate and intricate, especially in the case of interstate lines, as to preclude the possibility of making an investigation of the books that would prove of much real value. The earning reports of many roads have been very unsatisfactory in the past; but in nearly all cases investigations have only served to show the utter helplessness of the State in attempting to prove their inaccuracy. In some cases, however, the earnings have been so ludicrously small that the mere presentation of the matter to the railroad companies has caused them, voluntarily, to make some concessions to the State, though not large enough concessions to make their reports entirely satisfactory. • The State has, in those cases, been compelled to take what the companies would give, and has been glad, indeed, when they showed a willingness to modify their reports in any way that would make them more satisfactory to the State.

Indeed, the statute, as now worded, makes it nearly, if not quite, impossible for the interstate railroad companies, without going to an

enormous expense, to keep track of the actual earnings of their roads in Michigan. For instance: If a parcel is shipped from Marquette over different systems to some point in the eastern or southern states and the total freight charged upon it to its destination would be \$1, it might be necessary for three railway systems in Michigan to calculate their respective share of their earning contained in the dollar; and, indeed, it is their duty under the statute in such case, to calculate the company's exact earning in carrying this parcel, making it necessary not only to divide this dollar with other railway systems outside of the State, but making it necessary to compute the Michigan earning and divide it among two or three systems of railroads in this State.

The statute leaves no room for an estimate of what the earning would be; it must be the actual earning, to be determined, therefore, by an exact calculation of the amount earned by each company in transporting either small articles or bulky freight. In the limited time given for investigating the matter, this department has discovered that railroad companies in their reports either estimate their Michigan earnings or include only such as are easy of calculation. Both methods being con-

trary to law.

It is true that the commissioner is given the power to examine into the condition and management of matters concerning the business of railroads in this State so far as the same affect or relate to the interest of the public and to the accommodation and security of passengers or persons doing business therewith; and that he is given power to examine books, papers, records and vouchers of railroad corporations in this State; power, too, to examine, under oath, directors, officers, managers, lessees, employés or agents of any railroad corporation concerning matters relating to the condition and management of the business of such corporation. But just to what extent he could exercise this power in the case of interstate roads with officers beyond the jurisdiction of the State courts, is a matter concerning which there is much doubt and difference of opinion; and even if he could exercise the power, it would be impossible without the expenditure of an enormous amount of money. Then, too, the time in which the commissioner has an opportunity to investigate these matters is totally inadequate for the purpose, if, indeed, any length of time would be sufficient to disprove the figures of the railroad companies when they might be unfair to the State. The railroads are required to make their reports to the commissioner on or before the first day of April. The commissioner is required to make his report to the Auditor General on or before the fifteenth day of May, so that it will be seen that only six weeks are given in which the commissioner can look into these books with a view to determine their accuracy. When it is considered that over eighty roads make reports, it will be seen how utterly inadequate the time is in which to make anything like a reasonable investigation of the accuracy of the reports. It must then be evident to any one who will take the facts surrounding the present system of railroad taxation into consideration, that the State is entirely at the mercy of the railroads in this matter, and that in the great majority of cases unless the reports are outrageously untrue. practically nothing can be done. And so long as this system of railroad taxation remains in force, this injustice must needs continue.

Below a table is given showing that the interstate roads that operate in Michigan do not give to this State her fair proportion of earnings, and for that reason Michigan does not get from these railroads the amount of taxes which, under the law, she should have. It will be noticed that a small percentage of the roads named below give Michigan a larger proportion of earnings than she would have if they were reckoned on a mileage basis. But in the case of the roads that make this showing, it will be readily seen that they are roads almost all the earnings of which must naturally, from their location, come from Michigan; and it is not at all reasonable to draw the conclusion that they have reported to this State any more than Michigan's fair proportion of taxes. But to be perfectly fair in the statement, we have in the table below given due credit for their larger proportion.

By act No. 129 of the Laws of 1893, the present system of computing the taxes was inaugurated. Prior to that enactment the law provided that in the computation of the taxes, companies doing interstate business should pay a tax in proportion to the "length of the operated road lying within this State compared with the whole length of the system." The table above given shows the injustice done the State, not only by the manner of reporting earnings, but by the enactment of the law above mentioned.

Without admitting that a system of taxation upon gross earnings without reference to the values of the property is just, I call attention to the injustice of the present manner of computation as applied to roads doing an interstate business. If the method of computation in vogue prior to 1893 was still in existence, and was applied to all roads given in the above table, the State would have received in taxes from the interstate roads for the year 1896, \$876,701.53, instead of \$584,269.45, and the total tax received from railroads would be \$1,034,463.18, instead of \$742,074.63.

These last figures do not take into consideration any inaccuracies or mistakes that might possibly have crept into the reports of earnings made by the purely local or Michigan roads.

From what has been stated above, it is apparent that the present system of taxing railroads is unjust:

First, Because it is inequitable as compared with the tax upon other property, and because it is unjust to tax one kind of property upon its earning capacity and refuse the same privilege to other property;

Second, Because the State, under the present law, is powerless to determine whether the earnings reported by the companies are accurate or not, the whole machinery for determining and reporting the same being practically within the control of the railroad companies;

Third, Because a partial control thereof by the State is inadequate to protect it;

Fourth, Because the system as applied to roads doing an interstate business is a usurpation of the power of congress to regulate commerce between the states, and to that extent is void;

Fifth, Because the legislature, by adopting a system of taxation relative to railroads in vogue either in New York, Massachusetts, Ohio or Indiana, or some of the other states, can do justice between the railroads and the State through a system which shall be simple, direct and just.

## Estimated tax figured on mileage basis.

Railroads.	Total miles.	Miles in Michigan	Proportion for Mich-	Total earnings	Earni repor for Michi	ted Con	Earnings per mile, ontire line,
Ann Arbor Chicago & Grand Trunk Chicago & Milwaukec & St. Paul. Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & West Michigan Chicago & St. Louis Clavel, Cinc., Chicago & St. Louis Duluth, South Shore & Atlantic. Grand Rapids & indiana System Indiana & Lake Michigan Lake Shore & Mich. South. Syst. Lima Northern Michigan Contral System Minneap St. Paul & S't St. Marie Wisconsin & Michigan † Wabash	302 73 335 27 6,130 75 5,030 75 498 50 414 49 1,588 33 584 79 39 29 1,449 66 87 07 1,842 37 1,188 71 ,2 07 1,979 60	296 73 224 152 09 521 19 454 04 190 65 14 477 03 442 98 25 05 75 27 17 90 1,136 58 199 23 80 50	98 05 66 71 2 47 10 36 91 08 48 03 1 94 50 74 75 75 69 20 16 78 44 34 4 08	\$1,170,756 3,548,518 31,654,967 32,177,152 1,517,85 707,086 13,011,483 2,065,614 66,940 20,548,768 29,878 13,861,236 3,748,900 109,021 12,158,125	6 00 2, 168, 238, 281 2, 093, 6 98 1, 411, 386 2, 27, 282 131, 741, 5 2 1, 741, 1 5 2 1, 743, 2 1, 745, 2	.05 28 64 69 865 72 75 694 60 6 50 695 01 99 01 0 6 50 664 62 10 07 11 11 49 89 50 665 15 85 95 288 45 64 63	\$3,498 83 9,987 53 5,097 33 6,496 06 4,044 86 1,730 64 7,078 71 1,539 36 4,151 65 1,704 51 14,028 89 343 15 8,415 65 3,102 56 1,512 61 6,178 76
Total	22,159,15 4,856 52		\$138,084,599 25 \$21,669,186 72				
Railroads.	Earnings per mile, for Michigan.	Michigan proportion of earnings, Squred	on rolleage basis.	Michigan taxes based on earnings, figured on mileage basis,	Taxes setually paid in Michigan	Delicionery in amount of taxes actually pard as compared with taxes on mile age basis.	Surplus
Ann Arbor Chicago & Grand Trunk Chicago & Grand Trunk Chicago & Northwestern Chicago & West Michigan Chicago & West Michigan Clucinnati Jackson & Mackinaw Clevel , Cinc. Clicago & St. Louis Duluth South South Statutic Grand Repide & Indiana System Indiana & Lake Michigan Lake Shore & Mich. South. Syst.* Litta Northern Michigan Central System Minneal , St. Paul & St. St. Marie	\$3 458 28 9,674 23 1,570 67 4,017 14 4,111 39 1,876 96 5,729 78 7,77 18 4 007 17 1,728 08 5,634 00 14,799 6 606 14 3 8,26 65 1,066 05	4, 333 1, 582, 37 1, 584, 1, 584 1, 564 47 8, 245, 9, 79, 7	796 36 577 89 573 53 540 51 510 27 563 64 573 65 573 65 573 67	\$25,740 1 66,961 85 13,359 2 50 1 90 50 1 91 6 3 5 8 6 7 5 8 6 7 5 8 6 7 7 7 8 6 7 7 8 6 7 7 8 7 8 9 11 10 7 9 9	8: 7:888 88 64 - 74 - 14 4 - 1 5 - 13 8: 7 7 - 15 6 - 4 14 - 11 2 - 3 5 - 14 38 - 7 8 9 40 - 28 9 71 - 77 1 47 46 1 99 7 8 84 47 7 8 44	100 904 29	\$7 # 59 + 1 R 46 4 541 15 1 0
Wiscon-in & Michigan Wabasa	4,3, ) 25		19 91	IS 131-79	9,.14.43	8,14.5 ()	

<sup>\*</sup> In the above table the Lake Shore and Michigan Southern Railroad, heretofore taxed under a special charter, is treated as coming under the general law of taxation. This is justified by the provisions of act No. 123 of the session laws of 1891, and by the recent decision of the supreme court in the case of Smith vs. Lake Shore and Michigan Railroad Company.

† This road pays no taxes in Michigan, but the remainder of the system, extending into Wisconsin, pays taxes in that state.

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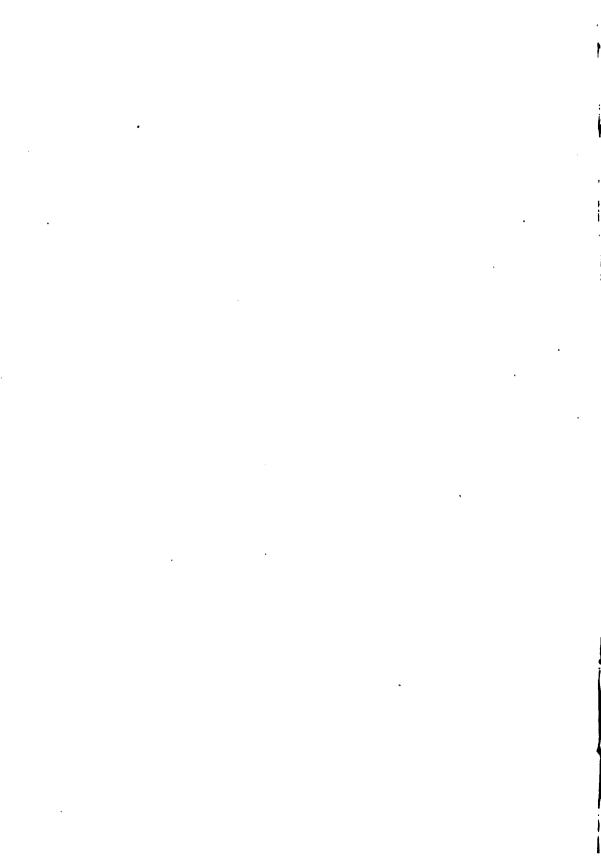
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C. & W. M. Rt





# MICHIGAN'S RESOURCES AS BEARING ON THE SUBJECT OF PRESENT AND FUTURE OF MICHIGAN RAILROADS.

Few states are richer in natural resources than Michigan. These resources are being rapidly developed and afford a splendid field for the successful operation of railroad enterprises. The extent and variety of Michigan's resources are surprising, even to many of the best informed citizens of the State. The amount of her freight and passenger traffic will compare very favorably with that of other states. Michigan's position as a railroad state is often misrepresented, much to the detriment of the State. It is therefore a matter of special pride and gratification to be able to present some facts which cannot fail to disprove the false position that is sometimes taken. Throughout the discussion that follows, comparison is frequently made with the resources of neighboring states, for the purpose of giving as clear an idea as possible of Michigan's relative position.

Before giving any statistics, it may be stated in a general way that Michigan is first in the production of lumber, iron ore, charcoal pig-iron, gypsum, furniture, and fruit; first, too, in inland fishery and lake commerce. Michigan is also first in the number and variety of her summer resorts, which furnish a transportation business for railroads not enjoyed by companies operating in other states. She furnishes more than one-third of the entire copper product of the United States. In the value of her sheep and wool, she is only surpassed by Ohio and California.

Statistics will be given later to show her exact position in these various lines of industry.

### CENTRALLY LOCATED.

The shortest routes for the transportation of interstate commerce, both to the east and the west, are through this State. We refer to the three great trunk lines in this connection: The Michigan Central, Grand Trunk, and the Lake Shore & Michigan Southern railroads. has water facilities which compete, to some extent, with her rail facilities, yet she provides her railways, and especially such of them as extend their lines and connections to the far east, with the grains, timber, minerals, ores and manufactured goods of the northwest. business is now being greatly increased by the introduction of the system of car ferry transportation, by which many lines heretofore local have been made through freight and passenger lines. Notably, the Flint & Pere Marquette, Ann Arbor, Chicago & West Michigan, and Detroit, Grand Rapids & Western railroads. Water transportation is by no means wholly a hindrance to freight transportation by rail, inasmuch as nearly, if not quite, all freight transported by water is carried also by rail to and from inland points.

### AGRICULTURAL RESOURCES.

Agriculture is the chief producing interest of the State, and still engages the largest portion of her people. It will undoubtedly continue to develop and will remain the chief producing interest for many years to come. Happily, however, Michigan, unlike most of her sister states, is not altogether dependent upon this interest for her wealth and prosperity. Yet, few states excel her, either in the volume of crops or in the quality of products.

Progress in the direction of the development of the State's agricultural resources has been very rapid indeed. The land area of the State is 36,361,919 acres, of which 15,296,076 acres have been occupied as farm lands, but only 10,379,515 of which are improved and tilled. There are 178,051 farms in the State. This shows an increase in a period of ten years of 18,442 farms, or 443,852 acres of land occupied for farming purposes. During the same time there was an increase of 1,404,859 acres in improved and tilled lands.

In the aggregate of farm crops, Michigan compares well with surrounding states, not alone in the amount of products raised, but also in the yield per acre. For example, Michigan's yield of wheat for 1896 was 17,861,399 bushels as against Wisconsin's 4,343,008, Ohio's 17,269,545, and Indiana's 24,574,853 bushels. This is an average of 12 bushels per acre in Michigan, and  $8\frac{1}{2}$  in Ohio and Indiana. For the year 1897, Michigan's wheat crop was 24,925,007 bushels, an increase of 7,063,008 bushels over the year 1896. Her yield of corn for 1896 was 81,733,087 bushels, or an average of  $68\frac{1}{2}$  bushels per acre. For the same year Wisconsin's corn crop averaged but 28, Ohio's 27 and Indiana's 37 bushels per acre. In 1896 Michigan produced 24,831,041 bushels of potatoes, Wisconsin 20,041,331, Ohio 12,852,147, and Indiana 7,107,809 bushels. Michigan's crop averaged 92 bushels per acre, Wisconsin's 80, and Indiana's 69.

It may be noted here that the greatest increase in agricultural resources has been in the northern portion of the State. Farms in the southern counties have decreased in value \$61,760,047; the value of their products has decreased to the extent of \$6,227,057; and the value of farm implements and live stock kept upon them has decreased \$758,606 and \$17,435.055, respectively, chiefly and perhaps solely on account of the financial depression. Notwithstanding this condition in the southern portion of the State, there was an increase in values in counties north of the 44th parallel, where railroads are exempt from taxation, \$8,248,215 in the value of farm lands; of \$3,734.052 in the value of farm products; of \$2,202,861 in the value of farm implements, and an increase of \$2,489,814 in the value of live stock.

These figures would seem to indicate that when the lumberman shall have finished his operations in the northern district of the State and shall have been followed by the thrifty and industrious husbandman, that portion of Michigan will rank well in the amount of its products with the fruitful southern counties of the State, and will furnish business to as many railroads as does southern Michigan.

### LUMBER.

For many years lumbering has been the chief manufacturing industry of Michigan. While it may be admitted that the yield of pine has been greatly lessened, the impression that the supply has been wholly exhausted is entirely erroneous.

From the report of the Labor Commissioner's department for 1896 it will be seen that there remains standing 8,410,350 acres of land upon which no timber has been cut; and 8,326,477 acres of timber land upon which only a portion has been cut. It is immaterial what proportion of these lands are pine timber lands, inasmuch as the price of hardwood, owing to the scarcity, has increased greatly, and there is now a market for all that is left within the State. While there are no authenticated reports as to the exact magnitude of the lumber business in the State except for the year 1892, some idea of its extent and value as a commodity for transportation by rail and otherwise, may be gathered from the figures for that year. The enormous number of 2,140,-800,000 shingles were produced. In addition to this, Michigan's forests yielded 3,794,256,754 feet of lumber, including much hardwood. present a large portion of the lumber product is being manufactured in the State and the manufactured articles again shipped, thereby paying double tariff to the railroads for the transportation thereof, the most of it being consumed in the manufacture of furniture and other articles designated as woodenware.

There are engaged in the consumption of this forest product 178 furniture factories in Michigan, with \$10,000,000 of capital invested, employing more than 10,000 men, paying \$4,000,000 per annum for labor, using \$6,000,000 worth of material and turning out for the market more than \$12,500,000 worth of furniture.

Aside from the manufacture of furniture, there are located in the State, 8,842 factories engaged in other lines, with a capital of \$252,257,205 invested, paying \$60,188,150 yearly for labor, using \$125,743,139 worth of material, and turning out an annual product valued at \$237,857,772. For the same year Wisconsin's manufactured product was valued at \$218,132,973, and that of the state of Indiana at \$226,825,411. Indiana's factories employed but 124,349 men and had invested but \$131,605,366 in capital, and paid \$51,749,976 for labor.

#### MINERAL RESOURCES.

Few people realize the importance that Michigan has acquired as a mineral bearing state. Some idea of the magnitude of the mining industry of the State may be drawn from the fact that the value of Michigan's minerals for the year 1895 reached \$31,000,000, and in the year 1896 it exceeded \$34,500,000. Some additional mineral statistics are here given for the purpose of better pointing out the importance of this industry. For example, nearly 40 per cent of the domestic product of iron ore, and more than 10 per cent of the world's supply, is taken from Michigan mines. The world's product for the year 1895 was 59,-

035,000 tons; that of the United States, 15,957,614 tons, and Michigan for the same year yielded 6,063,267 tons. In 1896 there was produced in the United States 14,650,000 tons, of which Michigan furnished 5,448,696 tons, or upwards of 37 per cent of the entire output, some twenty-four other states contributing the other 63 per cent. Michigan's product for 1896 was marketed for \$17,459,146.

Although in the past twenty years more than 83,360,681 tons have been taken from her mines, still Michigan's iron fields are practically undeveloped, and in the near future she is bound to supply the world with her product. A noteworthy feature of the product of the iron mines of the State is the excellent quality of the ore produced, surpassing that of any other state. The percentage of iron will average 63, while the ore from the southern fields will fall 20 per cent below this. Michigan is producing large quantities of Bessemer ores. These are necessary for the manufacture of steel; and this adds wonderfully to the importance and value of Michigan mines since it is from these that the United States must secure its supply.

Of the 839,718,000 pounds of refined copper mined in the world in the year 1896, the United States produced 450,696,760 pounds, or more than one-half of the world's yield. During the same year 138,396,760 pounds, or 17 per cent of the world's product and more than 38 per cent of the entire product of the United States, was taken from Michigan mines. The yield for that year had a market value of \$15,057,567, or an increase of \$1,128,378 over the previous year. Several million pounds of this copper are being manufactured yearly by the rolling and wiredrawing mills in the State. The product of the Superior region is the purest and richest known, and excells all other in strength, toughness and conductivity, on account of which it ever finds a ready and open market at an advanced price in this and other countries. Because of the advancement made of late in electricity, the demand for Michigan copper has greatly increased. During the brief period that the Upper Peninsula mines have been in operation they have marketed 2,071,146,-760 pounds of refined copper at a value of \$305,057,567; and during this time \$74,860,375 have been paid to the stockholders as dividends. Those for the year 1896 amounted to \$4,400,000. The yearly increase of Michigan's copper production is large and steady, amounting to about 5,000,-000 pounds (and last year reaching 8,822,904 pounds). While much has already been done in our copper fields, there is yet much more to be accomplished. Only a small portion of the territory productive of the metal has been developed. The copper bearing formation is 130 miles long and from 3 to 15 miles wide. Upon this large tract the present working mines are embraced in 13 square miles, or less than one-eightieth of the mineral bearing territory.

For years we have led all other states in the manufacture of charcoal pig iron. In the year 1896 the United States produced 310,244 tons, a gain of 84,903 tons over the previous year. Michigan produced in the same year 146,869 tons, which was an increase of 58,169 tons over the previous year's output. From this it will be seen that Michigan furnishes as much as all of the other states of the union combined, and that 70 per cent of the net increase of the production in the United States for 1896 came from Michigan.

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M. C. R. R., COLUMBIAVILLE

The State bears the proud distinction of being first in the amount and quality of salt produced. In 1896 it marketed 3,968,344 barrels, which represents 26 per cent of the entire product of the United States for that year. The Michigan product is one that finds ready market throughout the entire country.

Michigan coal fields are becoming of great importance, and rapid progress is being made in their development. The yearly output now exceeds 50,000 tons. One-half of all the gypsum mined in the United States comes from Michigan; and in 1896 the yield amounted to 56,000 tons. Great interest is being taken in the quarry of sandstone, grindstone, granite, marble and slate, and these industries promise to be of great importance to the State in the future.

It has been claimed that the largest portion of Michigan's minerals are transported to the market by means of the great lakes, thus depriving the railroads of any benefit whatever from these resources, but the falsity of this position is apparent from the fact that there was mined in the State in 1896 but 6,500,000 tons of minerals, and the railroad reports for the same year show that they moved 13,695,268 tons. From this it is evident that the railroads not alone move the ore from the mines to the smelters and refineries, but also transport it from them to the ports and to the consuming market, thus realizing a double tariff on this product.

When one considers Michigan's undeveloped resources in connection with those already developed, her inexhaustible mines and minerals, her extensive manufactures and mills, her wealth in hardwood, her great amount of agricultural lands yet untouched by the settler, and her advantageous position with reference to consuming centers, a basis will be found upon which to predicate the future of the railroad interests in Michigan.

### FREIGHT BATES.

The statute requires a report from this department as to whether a "classification of freight can be made, and if so, in what manner." The difficulties with which this matter was surrounded owing to imperfect data on file in the department as to the then schedules in force in the State, as well as the usual difficulties met by other states in an attempt to solve the question, made it a discouraging task. However, the legislature by resolution appointed a special committee to report a proper solution of the difficulties, the chairman of which committee, Hon. John F. Widoe, has kindly contributed to this report the result of the committee's investigation, and his conclusions therefrom and a method of solving the same, in the following article, entitled:

### DISCRIMINATIONS.

The design of the writer is to treat fairly and impartially matters coming under this branch of the Railroad Commissioner's annual report to the Governor. I am aware of the fact that Michigan has done much for the railroads, and in return the railroads have done much for Michigan. The railroad has not only brought our people and their industries together, but has carried civilization into a wilderness, which but for railroad facilities, would have remained wild for a century to come. It has played a graceful and important part in the advancement of the commercial interests of our State, and contributed handsomely to the happiness and prosperity of our citizens; and I truly and sincerely feel that in discussing the theme of railroad discriminations we are not warranted in making indiscriminate attacks upon corporations of a rail-way character and importance.

What the public really needs, wants and must have, is a logical and fair maintenance of an efficient, safe and reasonable transportation service, with rates and classifications adjusted equitably and fairly; a rate that is remunerative for the railway, and legitimate and fair to the shipper, and an application of such rates and classifications that will insure the identical same rate to a shipper located at a producing point where there is no competitive line of railroad to consuming points, as to a shipper located at a producing point having competing line of railroad to consuming point. We must have tariffs and classifications absolutely free from discrimination in favor of any community, corporation, company or individual; a rate that is fair, and guarantees a profit to the railway; a rate that is a rate today, and tomorrow; a rate that is a rate year in and year out. Just how to reach this beautiful standard of excellence and put into force and honest effect a tariff rate of such model perfection, is the question that is today perplexing both statesmen and railway managements.

Discrimination, as defined by Webster, is "the arbitrary imposition of unequal tariffs for substantially the same service." Hence, a difference in a tariff or rate must necessarily be based upon a reasonable corresponding difference in the cost for service rendered; and when the rate charged is different and not so based, such rate or tariff is a discriminating one.

The statute of Michigan (Howell, 3355) referring to discriminations, embraces under the side heading "Discrimination in rates forbidden," the following:

"No railroad corporation shall in any manner discriminate in its rates of freight tariff, in favor of any individual, company, or corporation doing business over its line of road, and shall grant the same rights and privileges to all shippers, subject to the same rates and classification, without rebate or any other special privilege or rate not extended to all other shippers in the same class, who ship a like quantity or quantities. Any railroad corporation refusing to comply with any of the provisions of this section shall be liable to a penalty not exceeding five hundred dollars."

By the provisions of this section, it would appear that there is plenty of law for the punishment of wilful discriminators in the application of freight tariffs, rates and classifications. The objectionable provision in this section is, "who ship a like quantity or quantities." This provision has been, and is today, construed by railroad corporations as being an open and lawful permission to make special or lower rates to large shippers,—wholesale shippers,—than to smaller shippers.

A great many of the more important grievances and complaints that came to the hands of the special railroad investigating committee of last winter were the direct product of this apparently discriminating provi-Wholesale rates, under this provision, were extended to large shippers in Michigan, and those favors by virtue of this provision were extended, and a lower or special rate made; and that, too, in my opinion, without discriminating intent. Naturally, smaller shippers would hear of these lower rates, and be prejudiced; and would insist that they were being wronged, and indiscriminately and unjustly dealt with. Attempts have been made to justify a statutory provision of this character upon the theory and practice among merchants, whereby they give better prices in wholesale than they do in retail dealings. On this point the courts have held that "the cases are not analogous, since the naming of a quantity of freight that shall be compared to wholesale purchase must necessarily be altogether arbitrary; and the duty of impartial service which railroad companies owe the public will preclude special discriminations being determined by arbitrary tests."

Ought "who ship alike quantity or quantities" be permitted to stand on our statute books? It certainly paves the way for favoring of large shippers and large capital engaged in manufacturing pursuits. It is a channel through which railroad corporations may accord special privileges to large shippers; and an open permit of this character will always (and rightfully, too) be construed as an unjust, unfair discrimination, if not an unlawful one. This provision certainly will admit of transactions that are contra to sound public policy, a violation of that principle of equality of rights guaranteed to every citizen, and must certainly if perpetuated, work a wrong and an injustice to every small

capitalist engaged in manufacturing industry.

The varied correspondence received last winter by the special railroad investigating committee of the legislature of 1896-7, embraced complaints along lines as follows:

Making better rates to large shippers than to small ones;

Excessive rates:

Discrimination in granting stop-over privileges on through billings: Stations located on competing lines of railroad receiving better facilities and rates than stations situated at non-competing points;

Rates for short haul excessive in proportion to rate for long haul;

Weights at initial station ought to control, etc.

I shall not attempt to treat in detail the various subjects complained of. I will say, however, that most of the complaints were based upon the complainants understanding of what was sufficient and good cause for grievance, and they sincerely felt that they were being discriminated against and unfairly treated by their railroad management. I am happy, however, to be able to say to you, at this time, that in the localities where the more important violations and more serious complaints came from, that the railroad companies are now doing their best to accord

even, just and equitable treatment to all their patrons alike.

I am fully and thoroughly of the opinion that the legislature has the power to pass appropriate laws prohibiting railroad corporations from granting special favors to any shipper; to prohibit excessive charges, and prevent discrimination in freight rates, tariffs and classifications. I also appreciate, and realize the fact that it is commonly recognized as impracticable to regulate by an elaborate system of legislation the duties of railroad corporations to the State. The one great thing in the way that, in a degree, handicaps legislative regulations, is that too much legislation has been, and is, guided by a spirit, on the part of legislators, to make legislation of a general character, conform to and rotate around their own district; their own factory; their own town; their own railroad; their own mine; their own lake or work shop.

In considering a problem so broad, and covering such a varied and wide range of interest as the regulation of the freight traffic of a great State, when the general welfare of the country is to be considered, the interest of the many instead of the few to be legislated for, it behooves legislators to lay aside local prejudices, view the commercial interests of all, rise to the plane of a statesman in the noblest sense of that dignified distinction.

In conclusion, and in the light of the many objections standing in the way of, and impeding a satisfactory regulation of freight traffic in Michigan by direct legislative provisions, let me recommend that you take under consideration the advisability of saying in your report to the Governor, that you favor the creation of a commission, to be known as "The Freight Tariff Rate and Classification Commission"; and ask the legislature to clothe said commission with such authority as would permit the exercise, through them, of the neccessary control over the railroad corporations of Michigan in the conduct of freight traffic rates and classifications, and the application thereof. Let the commission be composed of men who will have the successful promotion of the commercial interests of all at heart more than any personal political advancement, men with ability to aid and advise with the legislature for the construction of good sound business laws; laws based upon sound business logic and principle; laws that can be lived up to by all; laws that do not force railroad corporations to be law-breakers in order that they may maintain an existence. When this is accomplished the cry of "favored shipper" will die away; "unlawful discriminations," "excessive rates," "special favors," will be a thing of the past. Legislatures will be able to meet and There will be no unremunerative railway tariffs or rates, no unjust or vicious shifting of classifications. All differences of this character would be wiped out, and made just, fair and equal. road would be permitted to enjoy business profits. The small wholesale shipper would enjoy, and have accorded him, the same rates and facilities as the large wholesale shipper. The agricultural localities having a local market with but one line of railroad, will have the same advantage and equal facilities and rates to consuming points as localities having local market where competition in railroad facilities exist. Small capitalists, engaged in manufacturing pursuits, will have the same advantage, and same rates in the transportation of their product to distributing centers as does the large capitalist.

I believe that the proper application of the State commission system, will prove an equitable and logical solution of the freight traffic problem.

JOHN F. WIDOE.

# SEPARATION OF STEAM RAILWAYS AND PUBLIC HIGHWAYS AT CROSSINGS.

In view of the constant menace to the lives of persons, and to property at grade crossings,—as well to the property of the public as to that of railway companies, much interest has been manifested in many states of the union, and especially in the more densely populated eastern and northeastern states, in the subject of the separation of grades. The interest taken in the protection to lives and property at these crossings, has increased in proportion to the increase of the population, and to some extent to the casualties occuring thereat.

In 1893 the legislature of this State first manifested its interest in the subject matter by the passage of an act to provide separate grades for railroads and public highways and streets where railroads intersect such highways and streets. Some proceedings were instituted to separate certain grades in the city of Detroit under this act, but nothing has been accomplished except to determine the necessity therefor on one or two streets. This act was amended by act No. 143 of the session laws of 1895, and although two years have elapsed since its going into effect, no permanent results have been obtained.

### NUMBER OF CROSSINGS IN MICHIGAN.

There are in the State of Michigan 8,112 crossings, 542 of which are protected by gates or flagmen, and 60, by electric or automatic signals; at 242 of them the grades have been separated voluntarily by the companies, leaving 7,268 of these crossings at grade and unprotected either by watchmen or gates.

The number of crossings is constantly increasing, both from the extension of railroads and by the improvement of hitherto unoccupied lands along the tracks of the different companies.

It is costing the railways of this State over \$250,000 per annum to protect 542 crossings out of a total of 8,112. Watchmen and gates are required largely in cities and densely populated communities.

Battle Creek has 15; Bay City, 20; Detroit, 103; Grand Rapids, 49; Kalamazoo, 26; Saginaw, 36; from which figures it will appear that nearly one-half of the watchmen stationed at crossings are required in the six cities named. It is safe, therefore, to presume that action for separation of grades should be begun in the cities of the State; and perhaps at its inception, a well-formulated and well-executed plan for the separation of grades should be confined to these localities.

The importance of this question as evidenced by the number of deaths and injuries at grade crossings, is demonstrated by a report upon the sub-

ject of deaths and accidents at grade crossings for a period of ten years, extending from 1887 to 1897. During that period there were killed at grade crossings, 187 persons, and there were injured at grade crossings, 193 persons. Statistics as to the amount of property destroyed at the crossings,—of the public and of the railroad companies—have not been kept; but it is apparent that the amount is not inconsiderable.

### ADVANTAGE TO THE TRAVELING PUBLIC AND TO THE BAILBOAD COMPANIES.

By a separation of grades in cities, the general public would be greatly benefited by an increased speed of trains in going into the cities, now limited to from four to eight miles per hour by ordinances passed by the municipalities, and in most cases strictly enforced, with such limitations thereon as provided by the statutes of the State.

### THE PRESENT ACT CUMBERSOME.

After a careful perusal of the law governing the subject of this State and upon consultation with parties interested in the separation of grades and after a comparison of the act with provisions upon the subject in other states, it will be found that our statute upon the subject is cumbersome, and that the proceedings to be taken thereunder are involved in much machinery that makes it difficult of execution, and as well very expensive to both the municipalities and the railway companies seeking The worst feature of the act seems to be that it can the benefit thereof. only be executed, according to its provisions, after an attempt has been made by a railroad company to agree with a municipality on the different matters involved in it, and in the separation of grades; and after failure to make such an agreement, the making of which, of necessity, consumes much time and much expense and much labor, then the municipality or twenty freeholders owning property upon the highway affected, may petition the Railroad and Street Crossing Board to take action. to this defect, largely in the one or two attempts which have been made to separate grades within this State, nearly a year has been consumed in an attempt to make an agreement, and much valuable time has been lost. If the separation of grades at any point in Michigan is a public necessity, all hindrance to a speedy determination of all the questions involved should be removed, and the proper authority should act upon a petition presented by a municipality or by the residents upon a street affected, or by a railroad company.

### EXPENSE OF SEPARATION.

The chief question involved in a separation of grades is the expense attendant upon it. Damages may be awarded to the abutting property owners damaged thereby; to the railroad company or the street railway company operating in the streets. Then, too, the question of the division of expense between the company or companies and the municipal-

ity is a matter that must be adjusted. The query has also arisen in many states, and been answered, as to what proportion of the expense, if any, should be borne by the state.

Of the sister states, the commonwealth of Massachusetts has undoubtedly obtained the most matured system and machinery. The Massachusetts act provides that the cost of construction shall be divided between the municipalities, the state, and the railroad company, in the following manner: Ten per cent thereof to be borne by the municipality; twenty-five per cent thereof, by the commonwealth, and sixty-five per cent, by the railroad company. Where the street crosses above the railroad tracks the expense of maintaining the structure below the street, is borne by the railroad company, and the expense of that portion of the structure used by the traveling public as a highway, is borne by the city. Under this law, passed in 1890, there had been expended in the state of Massachusetts up to the first day of January, 1897, \$6,147,923.09, of which the commonwealth had paid, \$1,536,980.77.

In most instances the railroad companies are first to seek the benefits of the act.

Whether this division of expense is equitable and just could be best submitted to the legislature, having in mind that no positive rule applicable to all localities should be adopted.

In many instances street railways occupy the streets and highways at the point where a separation of grades is sought. Under the present police regulations, the street railway companies are put to considerable expense, and to a loss of time in determining that it is absolutely safe for their cars to cross steam railroads.

It is also within the jurisdiction of the Commissioner of Railroads to order the street railway companies to put in safety devices at their intersection with steam railroads; and it has been the policy of the present administration of this department to require safety devices at all such points of intersection. It is therefore reasonable in a division of the expenses of separation of grades, to take into account the benefits arising therefrom to the street railways occupying the highways, and to cause them to bear a portion of the expense of the separation.

With a view to simplifying the law in this State upon the subject and introducing harmony into its provisions which now seems to be lacking, and as well to introduce into it the legislation of other states, based upon their wider experience, I submit herewith a proposed statute upon the subject to serve as a guide in securing positive and effective legislation with reference thereto.

AN ACT to provide separate grades for railroads and public highways and streets where railroads intersect such highways and streets.

SECTION 1. The People of the State of Michigan enact, That where any railroad crosses or shall hereafter cross any public street or highway, the separation of the grades at such crossing shall be accomplished under the provisions of this act.

It shall be lawful to accomplish the separation of grades at any public street or public highway in this State by agreement with the proper officers of the railroad company crossing said street, and which said

agreement shall be made between said company and the persons named in this section under the separate sub-divisions thereof.

- (a) Where said crossing is within the limits of any city by the common council of said city.
- (b) Where said crossing is within any county outside the limits of any city and upon any State or territorial road, by the board of supervisors of said county.
- (c) Where said crossing is within any county outside the limits of any city and upon any county road, by the board of commissioners of county roads, provided for in section forty-nine of article four of the constitution.
- (d) Where said crossing is within any township outside the limits of any city and upon any township road, by the township commissioner of highways.
- (e) Where said crossing is on the line between any city and the territory outside such city as follows:
- 1. Where the crossing is on a State or territorial road, by the joint action of the common council of the city and the board of county supervisors.
- 2. Where the crossing is on a county road, by the joint action of the common council of the city and the board of commissioners of county roads.
- 3. Where the crossing is on a township road, by the joint action of the common council of the city and the township commissioner of highways.
- (f) Where the crossing is on the line between two or more counties, or between two or more townships of the same county, by the joint action of the boards of county supervisors, boards of commissioners of county roads, or township commissioners of highways, according as the crossing is on a State or territorial road, a county road or a township road. Or judicial proceedings may be instituted to obtain such separation of grades in accordance with the provisions of section ten of this act. The words "representative board or officer," where occurring hereinafter, shall be understood to mean board or boards of supervisors, board or boards of commissioners of county roads, township commissioners or commissioners of highways, common council, or any two or more of them, as the case may be.
- SEC. 2. Such representative board or officer, as the case may be, may enter into an agreement with any railroad company or companies crossing any such street or highway providing for the separation of the grades at such crossing by carrying said street or highway either over or under said railroad at the point of intersection. Said agreement shall have attached thereto as a part thereof, an accurate profile and map of those portions of the street or highway and railroad or railroads of which the grade is to be changed according to said agreement and a plan showing the details of construction necessary for the separation of the grades at such crossing. Said agreement shall also provide for paying the cost of making and maintaining such separation of the grades and for the division of the total expense thereof between the parties to such agreement, and shall fix the amount of damages, if any, to be paid to said railroad company or companies as compensation for any injury to it or them resulting from said changes of grade, exclusive of the expense of con-

struction and maintenance above provided for: Provided, That no such agreement shall be enforceable until the damages referred to in section three of this act are fixed by judicial proceedings, or by compromise under said section three: Provided further, That no agreement made by a board of county supervisors, board of county commissioners of highways, or township highway commissioner which necessitates the borrowing or raising by tax of a greater sum by the county or township than such board or commissioner is authorized to raise, shall be enforceable until the authority to raise such excess has been duly given; nor shall any agreement made by a township commissioner of highways be valid until the same is approved by the township board: Provided, however, That the entering into said agreement or attempt to enter into the same by any party affected by the separation of said crossing, shall not be a condition precedent to the separation of said grades under the provisions of this act, or to an institution of proceedings to effect such separation.

The mayor and common council of any city, the president and trustees of any village, a majority of the township board of any township within which a street, avenue or highway crosses or is to be crossed by a steam surface railroad at grade, or the president or general manager of any steam surface railroad company whose road crosses or is crossed by a street, avenue or highway at grade, may bring their petition in writing to the board created under the provisions of this act, therein alleging that public safety requires an alteration in the manner of such crossing, its approaches, the method of crossing, location of the highway or crossing, the closing of the highway crossing, the substitution of another therefor not at grade, or the removal of obstructions at the site of such crossing, and praying that the same may be ordered, and which said petition may also be filed by not less than twenty property owners upon said street; and upon the filing of said petition, as aforesaid, it shall be the duty of said board to proceed in such manner as they are directed in the provisions of this act.

Sec. 4. The Governor, within ten days after this act shall take effect, shall appoint, by and with the advice and consent of the Senate, two persons who, together with the Commissioner of Railroads, shall constitute a Railroad and Street Crossing Board. Said board shall have and keep their office at the office of the said Commissioner of Railroads. One of said persons so appointed and to be named shall hold office until the first day of January, in the year of our Lord, one thousand ........... and until his successor is appointed and qualified. At the regular session of the legislature next thereafter and every two years thereafter, the Governor, by and with the advise and consent of the Senate, shall appoint one member of said board, who shall hold office for the term of four years from the first of January in the year of his appointment and until his successor is appointed and qualified.

SEC. 5. No person shall be appointed as a member of said board who is not a citizen of this State, and who, at the time of his appointment, is in any way connected with any railroad corporation, and who is directly or indirectly interested in any stock, bond or other property of, or is in the employ of any railroad corporation, and no person so appointed shall, during the term of his office, become interested in any stock, bond or other

property of any railroad company, or in any manner be employed by or connected with any railroad corporation.

SEC. 6. The Governor shall have power to remove for cause any such member, and appoint another to fill the vacancy at any time in his discretion, but the reasons for such removal shall be laid before the Senate at the next regular or special session of the legislature thereafter, and in case of a vacancy in the office of any such member, the Governor may appoint another person to fill the same.

SEC. 7. Before entering upon the duties of his office the person so appointed shall make, subscribe and file in the office of the Secretary of State, an oath of office in the form prescribed by section 1, article eighteen of the Constitution of this State, and shall enter into bonds with the people of the State of Michigan in the sum of ten thousand dollars, with sureties to be approved by the Governor conditioned upon the faithful performance of his duties.

SEC. 8. Each of said members, other than the Commissioner of Railroads, shall receive as compensation the sum of ten dollars for each and every day spent in the performance of his duties. He shall be reimbursed for all actual cash outlay for railroad and hotel fares, and other expenses incurred in the performance of his duties. His bills for services and expenses shall be audited by the Board of State Auditors and paid from the State Treasury.

SEC. 9. Upon filing the said petition metioned in section three of this act, and within five days thereafter, said board shall cause a notice of the filing thereof, together with a certified copy thereof to be served upon the mayor of the city affected by said petition or the president of any village, or the supervisor of any township, and upon the president or general manager of any railroad company whose road crosses or is crossed by the street, avenue or highway at grade, described in said petition. And where said highway is located between any two of the municipalities therein mentioned, then the same shall be served upon the representative officers herein named of said municipalities. Said notice accompanying copy of said petition aforesaid, shall also contain the notice of the time, and place of hearing of the said petition, which hearing shall be not less than twenty days from and after the time of the service thereof.

If the board or a majority thereof determine that a separation of grades is necessary, they shall determine whether the grade of said railroad or railroads shall be raised or lowered, and how much, and whether the grade of said street or highway shall be raised or lowered, and how much. And having determined the manner of making such separation as they or a majority of them shall deem best, they shall also estimate as near as may be and determine the cost and expense of doing and constructing the work. To assist said board in determining upon and making said plan, profile, map, estimates, and the report herein mentioned. they may employ an engineer and such clerical assistance as they may need. The expense of such employment shall be audited and paid upon the certificate of the president of said board, in the same manner as provided for their other expenses. They shall adopt a plan showing details of construction necessary for the separation of grades at such crossings by carrying such street or highway either over or under said railroad or railroads, as they or a majority of them shall deem best. They shall

make or cause to be made an accurate profile and map of those portions of the street or highway and railroad or railroads of which the grade is to be changed. They shall estimate as near as may be the cost and expense of doing and constructing the work to be done in a separation of said grades, and in the absence of statutory provisions governing the same, they shall determine the division of the cost and expense thereof, and what proportion thereof shall be borne by the city, county or township, the street railway or railways effected thereby, and the steam railroad or railroads affected thereby, and which report so made by them shall be signed by them or a majority thereof, and a copy thereof filed with the records of said board, and hereby directed to be kept in the office of the Commissioner of Railroads of this State; and copies thereof shall be served upon the railroad companies, street railway companies and municipalities affected by said report, in the same manner and form as is provided by law for the service of processes upon said parties.

SEC. 10. It shall be the duty of the corporation, municipality, person or persons upon whom said report of said board, together with decisions and recommendations accompanying the same, shall be served in accordance with the provisions of this act, to act upon said decisions and recommendations, and carry the same into effect under the provisions hereof, within thirty days after the service of a copy of said report and decisions as in the preceding section provided; and in case of either failure or neglect so to do, the board shall present the facts in the case to the Attorney General who shall thereupon take proceedings to compel obedience to the decisions and recommendations of said board, by mandamus or otherwise: Provided, however, that the institution of proceedings in accordance with the provisions of this act by one of the parties upon whom copy of said proceedings has been served, shall release all other parties so served as aforesaid from the duty to commence said proceedings enjoined upon them by the provisions of this section.

SEC. 11. It shall be the duty of the municipality served with said copy as aforesaid, through its city attorney or other legal advisor to forthwith prepare and file in the name of the county, township or city, in the court having jurisdiction in the proceedings, a petition signed by him in his official character, and duly verified by him, to which petition certified copies of the resolution, proceedings, determination, findings and recommendations of said Railroad and Street Crossing Board, shall be attached and annexed, and which certified copies shall be prima facie evidence of the action taken by said board or officers, and of the proceedings prior thereto, and of the regularity thereof. Said petition shall be filed in the circuit court for the county in which said highway or highways mentioned in the proceedings of said board is located: Provided, That in cities having a recorder's court proceedings shall be instituted and prosecuted in that court; and in cities having a superior court and no recorder's court, such proceedings shall be instituted and prosecuted in said superior court. The petition shall state that it is made and filed as commencement of judicial proceedings by the county, township or city, as the case may be in pursuance of this act, for the purpose of separating the grades of the street or highway and railroad or railroads at their intersection, designated by any proper descriptive words, in accordance with

the plan set forth in said resolution, certificate or report, as the case may be, referring thereto, and for making just compensation to all persons sustaining damage thereby, shall give a description of the property abutting on that part of said street or highway of which the grade is to be changed, also a statement of the manner in which said property and any street railroad line on said street or highway will be affected by said change and to what extent, and shall state that said representative board or officer or said Railroad and Street Crossing Board, as the case may be, has declared it necessary for the public benefit, to make said separation of grades in accordance with the plan set forth in said resolution or certificate or in said report, as the case may be, shall contain the names of the railroad companies and street railroad companies to be affected by the proposed change, and of all persons interested as mortgagees, lessees, or otherwise in the property of such companies, of the owners and others interested in the property, abutting on that portion of said street or highway of which the grade is to be changed so far as the same can be ascertained, including those in possession of the premises, and in cases where the crossing is of a class embraced in clause (e) or (f) of section one of this act, the name of the city or of the county or counties, township or townships interested, other than the county or township in whose name the proceedings are taken, as the case may be. If the name of any person interested in any of the abutting property is unknown, the petition shall state the fact and the interest owned by such person or persons. All persons, corporations and bodies politic and corporate, so named in said petition, shall be made parties respondent in Said petition shall ask that a jury be summoned and empaneled to ascertain and determine whether it is necessary for the public benefit to make such separation of grades in accordance with said proposed plan and to ascertain and determine the just compensation to be made to the persons interested in said abutting property. And to assess the compensation, cost and expense by them awarded against the city and county or counties, township or townships, company or companies, as the case may be, that are parties to the proceedings, as provided by Upon receiving such petition, it shall be the duty of the clerk of said court to issue a summons against the respondents named in said petition, stating briefly the object of said petition and commanding them in the name of the people of the State of Michigan to appear before said court at a time and place to be named in said summons not less than twenty nor more than forty days from the date of the same, and show cause, if any they have, why the prayer of said petition should not be granted.

SEC. 12. Said summons shall be served by the sheriff, under sheriff, or a deputy sheriff of the county, or in proceedings pending in the recorder's court or superior court of any city, by any member of the police force of such city, at least five days before the return day thereof upon all the respondents found within the county by exhibiting the original and delivering a copy thereof to each of them. If any respondent who is a resident of the county, cannot be found, the summons shall be served by leaving a copy thereof at his usual or last place of abode with some person of suitable age and discretion. If any minor or person of unsound mind is a respondent, service may be made on the guardian of such person, if there

be one, and if there is no guardian, the court may appoint some discreet and proper person to be guardian of such person in such proceedings; and such guardian shall have the authority to represent such person in such proceedings, and the proceedings to appoint such guardian shall be the same as provided in chapter two hundred four of the compiled laws of eighteen hundred seventy-one of the State of Michigan. If it shall appear on the return day of the summons that any respondent cannot be found within the county and has not been personally served, or is a nonresident, and such respondent has not voluntarily appeared, of if the name of any person interested is unknown, the court may make an order for the appearance of all respondents who have not been personally served and have not appeared, at a date not less than thirty days from the date of such order, and that service be made upon them by publishing a copy of such order, at least once in each week for three successive weeks, before the date set for said appearance, in a newspaper printed, published and circulated within the city or county as the case may be, and if there be no such paper, then in such paper as the court shall consider to be the most generally circulated within the city or county. Alias and pluries summons may be issued and the court may adjourn the proceedings from time to time as there shall be occasion and as in other civil cases. return of the officer upon the summons and an affidavit of due publication of the order for appearance, if any, shall be filed in the office of the clerk of the court before a jury shall be impaneled and such a return of personal service shall bind the respondents and unknown parties in interest and the property in which they are interested.

SEC. 13. On the return day of the summons or on some subsequent day to which the proceedings are adjourned, if no sufficient cause to the contrary has been shown, the court shall make an order that a jury shall be impaneled in the cause to ascertain and determine the necessity for the public benefit of separating the grades of said streets or highways, and of said railroad or railroads at their intersection, in accordance with said proposed plan, and to ascertain and determine the just compensation to be made therefor to the street railroad companies, if any, and persons interested in the abutting property made parties respondent to said petition, and to assess the costs and expenses by the act to be assessed as provided herein.

Sec. 14. Such jury shall be composed of twelve freeholders of the city or county, as the case may be, and shall be selected and impaneled as follows: The sheriff shall select at least twenty-four persons, freeholders of said city or county, from whom a jury shall be impaneled in the cause, and the names of said twenty-four or more persons having been selected and returned by the sheriff, as directed by said order, the court shall thereupon cause such persons to be summoned by the usual process of venire to attend the court on a day to be named in said venire to serve as jurors, and the court shall then adjourn all further proceedings on said petition till the return day of said venire. Said venire shall be served by the sheriff or his deputy as in other like cases. On the return day of said venire, or on the day to which the proceedings may be adjourned, the court shall proceed to impanel a jury of twelve disinterested freeholders from persons so drawn and summoned. And if such jury cannot be found from the persons who shall attend upon such summons, or if so many of

the persons summoned shall be excused or shall be rejected by the court upon challenge or otherwise that there shall not be a sufficient number left to constitute a jury, the court shall order the sheriff of said county forthwith to summon immediately other freeholders of the said city or county to attend as jurors, until a panel of twelve qualified jurors shall be obtained. In impaneling a jury the practice and proceedings shall be the same as in ordinary civil suits so far as practicable. Four peremptory challenges shall be allowed to the petitioner, and the respondents who are the persons interested in the abutting property and any street railroad company shall collectively be entitled to the same number. If any juror, after being sworn, shall die or become unable to discharge his duties, the court may appoint another qualified person to serve in his place, who shall be sworn and take his place upon the jury, or may, in its discretion, impanel a new jury.

SEC. 15. The jury so impaneled shall be sworn or shall affirm that they will justly and impartially ascertain the necessity of separating the grades of said street or highway and of said railroad or railroads as proposed in said petition, and if they deem that such necessity exists that they will impartially ascertain and determine the compensation to be made to the parties respondent and unknown parties in interest named in said petition. The jury shall hear the proofs and allegations of the parties and the arguments of counsel and if so ordered by the court to go to the place of intended improvement, and in charge of an officer, and upon, or as near as practicable, to any property claimed to be damaged in making the same and examine the premises. They shall be instructed as to their duties and the law in the case by the court, and shall retire in charge of an officer and render their verdict in the same manner as on the trial of an ordinary civil case. The testimony given shall be reported, all objections made and the rulings of the court thereon, the exceptions taken being noted by the regular court stenographer and the charge of the court or instructions given to the jury shall likewise be reported by The jury shall report in writing as to each distinct parcel of land and as to each street railroad company claimed to be damaged and the interests in the same separately, and when all is finished, bring the report into court, and the same shall be filed with the clerk. A disagreement of the jury as to one or more distinct parcels of land shall not affect their report as to any lands in regard to which they have agreed, and upon such disagreement the court may upon motion of the petitioner, with a view to further proceedings, permit the petition to be so amended as therafter to relate only to the premises affected by such disagreement, and to the persons interested therein, and may also cause a new jury to be drawn and impaneled, which new jury shall be drawn and impaneled in the same manner as above provided for the drawing of the original jury, and like proceedings as above provided shall thereupon be had, as to the lands concerning which there was such failure to agree and such new proceedings may be ordered by the court as often as may be necessary. The court may allow the jury to take with them when they retire, proper descriptions of the land claimed to be damaged as well as maps of the same and of the premises adjacent thereto and showing the proposed improvement and such other papers as the court in its discretion may deem it proper for them to have, including forms of verdict containing a description of the property and the names of the occupants or owners or other persons interested therein, and in which they may find necessary to make the proposed improvement as aforesaid, or may not find it necessary to make such improvements, such forms to be made under the direction of the court, or the verdict may be prepared by the jury. The verdict of the jury may be set aside by the court and a new trial ordered for objections of law and for matters of substance, but not for objections as to matters of form, and in the same manner and on the same ground as an ordinary civil action in courts of general jurisdiction. The court may, before the jury is finally discharged, refer their verdicts and findings back to them, for the correction of any errors, defects or insufficiencies therein contained. The verdict of the jury shall be in writing and shall be signed by them.

The jury shall in their verdict ascertain and determine the necessity for the separation of the grades of said street or highway, and of said railroad or railroads, as proposed in said petition. And if they find that such necessity exists they shall then ascertain and determine the amount of damages to such property as may be damaged thereby, and also to any street railway so damaged and shall award to the parties interested compensation for such damages. If any property damaged shall be subject to a mortgage or lease, or to any lien or estate or interest otherwise arising, they shall apportion the compensation awarded among the parties interested therein as they shall deem just. In case the owner of any interest in any property damaged is unknown, they shall determine the compensation for damages to such interest and the same shall be paid into court for the benefit of such persons. They shall state separately the several amounts of damages by them awarded, and any apportionment of damages among different interests by them made. The amount of cost and expense which it would be just and equitable that the city, county or township should pay to said railroad company or companies, for the doing and construction of the work to be done by it or them, and determined by said crossing board and stated in their report as provided by said section nine, and the amount of cost and expense which it would be just and equitable that said company or companies should pay to the city, county or township for the work to be done or constructed by the city, county or township, and determined by said crossing board and stated in their said report shall be final and conclusive. And the said jury shall assess in their said verdict the total compensation by them awarded for damages for such property as may be damaged by such improvements to the parties interested therein and to any street railroad company, and also assess the amount determined by said report of the crossing board to be paid by said city, township or county, as its fair share of the expense of the work to be done by said railroad company or companies, when the crossing is within the limits of the petitioner, against the petitioner, and in all other cases against the city, and county or counties, township or townships, as the case may be, that are parties to the proceedings in equal shares. Said last mentioned amount to be assessed in favor of and to be paid to said railroad company or companies. And they shall likewise assess against the said railroad company or companies and in favor of and to be paid to said city, county or township the portion of the cost or expense, which it was determined by said crossing board

would be just and equitable, that said company or companies should pay to the petitioner or other body politic to whom the same are awarded in the report of said crossing board. Amendments either in form or substance may be allowed in any paper, petition, resolution, process, record or proceeding, or in the description of property damaged or claimed to be damaged or in the name of any person whether contained in the resolution or certificate of the representative board or officer, in the petition of property owners or in the report of railroad and street crossing board or elsewhere, wherever the amendment will not interfere with the substantial rights of the parties. Any such amendment may be made after, as well as before the order confirming the verdict of the jury. Motions for a new trial or to arrest proceedings shall be made within two days after the rendition of the verdict unless further time is allowed by the court. And if no such motion is made, or if being made, is overruled, the court shall enter an order confirming the verdict of the jury, containing a recital of the substance of the proceedings and a description of each parcel of real estate for damages to which compensation is awarded, with the statement of the interest of any unknown party therein, and the name of each railroad company, street railroad company, municipality, or other party in interest in the proceedings to whom compensation for damages is awarded or to whom any of said costs or expense may be awarded or against whom the payment of any sum by said jury may be charged or assessed, which order shall also direct by whom, to whom, and in what time the payment of the sums awarded is to be made and said order of confirmation, unless reversed by the supreme court, shall be final and conclusive as to all persons interested therein.

Sec. 17. Any party to said proceedings, considering himself aggrieved, may appeal from the order of the court confirming the verdict of the jury, by filing with the clerk of the court a written notice of such appeal within five days of the confirmation, and within the same time serving a copy thereof upon the attorneys of the adverse parties, and filing a bond in said court, to be approved by the judge thereof, conditioned for the prosecution of said appeal, to judgment and payment of all costs, damages and expense that may be awarded against him in case the judgment of confirmation shall be affirmed. Such appeal shall be perfected within the same time and prosecuted in the same manner as appeals under the general act for taking private property for public use in cities and villages. In case of such an appeal the clerk of the court, on payment of his legal fees and charges, shall transmit to the supreme court a certified copy of the necessary files, records and proceedings in the case, and the judge of the court shall, at the request of the appellant, settle a case according to the usual practice of said court, showing the material evidence and instructions given to the jury bearing upon any disputed points to which exception is taken, and the objections, rulings and exceptions in the case, all of which shall be returned by said clerk as part of the records to the clerk of the supreme court.

SEC. 18. The said appeal may be brought on for a hearing at any term of the supreme court, and said court may affirm, or for any substantial error reverse the judgment, and may grant a new trial. The said court shall allow the prevailing party his reasonable costs and expenses to be taxed, and give judgment as in chancery appeals, and all costs, damages

and expenses awarded to the city, township or county, if it so elect, may be applied on or deducted from the compensation, if any to be paid, or execution may issue on the judgment. Damages may be awarded against a party appealing without reasonable cause.

SEC. 19. The total compensation for damages and expenses, if fixed by agreement, esttlement or compromise, under the provisions of sections two and three of this act, or if fixed by a jury, such total compensation less the total amount assessed against the railroad company or companies as hereinbefore provided, shall be paid by the city, township or county in whose names the proceedings are instituted, except in cases where some city, county or township is a party respondent, in which case it shall be paid by the city and county or counties, township or townships that are parties to the proceedings, as the case may be, in equal shares. Any sum assessed against any railroad company, as hereinbefore provided, shall be paid by such company to the petitioner.

SEC. 20. When the verdict of the jury shall have been finally confirmed by the court, and the time in which to take an appeal has expired, or if an appeal is taken on the filing in the court below of a certified copy of the order of the supreme court affirming the judgment of confirmation, it shall be the duty of the clerk of the court to transmit to the common council of the city, when a city was a party to the proceedings, and to the county clerk of each county, and to the township clerk of each township that was a party to said proceedings, a certified copy of the verdict and of the judgment of confirmation, and of the judgment, if any, of affirmance; and thereupon the proper and necessary proceedings in due course shall be taken for the collection of the sum or sums awarded by the jury.

SEC. 21. If the common council of any city which has been such party believe that either a portion of said city in the vicinity of the proposed separation of grades, or any street railroad company which owns or operates a line, any part of which is within said city, and which was a party to such proceedings, or both such portion of the city, and any such company or companies will be especially benefited by such separation, they may, by an entry in their minutes, provisionally determine that the whole or any just proportion of that part of the compensation awarded for damages and expenses which is apportioned to said city, shall be assessed upon the owners or occupants of real estate, or upon such company or companies, or upon both such portion of the city and such company or companies deemed to be thus benefited; and thereupon they shall, by resolution, provisionally determine the district or portion of the city benefited, if any, and the amount to be assessed upon the owners or occupants of real estate therein, or upon said company or companies or upon both. The assessment district and the amount to be assessed having been thus provisionally determined, said common council shall fix a date for the hearing of persons objecting to the constitution of said assessment district, and to the amount to be assessed, and to the assessment of said company or companies, and shall cause a notice to be published once in each week, immediately preceding said hearing, for three successive weeks in a newspaper printed, published and circulated in the said city, or if there be no such paper, then in such newspaper printed and published in the State as said board shall deem to

be most generally circulated in said city, which notice shall be substantially as follows: To (stating the name of all owners and occupants of real estate in said assessment district so far as known) and to all other persons owning and occupying or otherwise interested in the following described real estate (giving the description of all real estate in said district), and to (giving the names of the street railroad companies to be assessed, if any), you are hereby notified that the sum of ........ dollars is the proportion of the amount of compensation awarded in consequence of the separation of grades of the street (or highway and railroad or railroads or any of these as the case may be) to be made at the intersection of (describing the intersecting street or highway and railroad or railroads by their names and in appropriate language) provisionally determined by the (giving name of the common council) to be assessed upon the above described real estate which has been provisionally constituted an assessment district therefor (upon said street railroad companies, naming them, or upon both said companies and said real estate, as the case may be). You will be given opportunity at the meeting of (giving name of said common council) to be held on ....... to show cause, if any there be, why any of the above described real estate should not be included in said assessment district, or (why said companies should not be assessed, or both, as the case may be), and why the amount to be assessed should not be fixed at the sum above stated.

Signed—(name of presiding officer of said common council).

It shall be the duty of the clerk of the court in which said issue shall have been tried, to send a certificate to the county treasurer or city treasurer of the city or county wherein said proceedings were instituted, as the case may be, of the total expenses to be borne by said municipality in and about the separation of said grades as aforesaid, and the amount of which sums so reported as aforesaid, shall be levied, assessed and collected at the same time, and in the same manner, as general personal taxes are or may be collected, and shall, when collected by the proper collecting officers, be paid over to the treasurer of the city, county or township by which said proceedings were instituted, as the case may be, by whom it shall be placed to the credit of the fund created for the payment of the compensation on account of the changes of grade provided for. That it shall not be obligatory upon said municipality's authorities, or any of them, to pay said sum heretofore mentioned, out of the general fund, but the sum may be assessed upon the district benefited by said improvement and separation of grades in the same manner and form, and by the same authority as is established by law governing the said municipality for the determining of districts benefited by public improvement.

SEC. 23. The assessment roll containing said assessments on a city district, when ratified and confirmed by the common council, shall be prima facie evidence of the regularity and legality of all proceedings prior thereto and up to and including said confirmation, and all assessments therein contained shall be and continue a lien on the premises against which the same are assessed, until payment thereof. Such part of the compensation apportioned as above provided, to any city for payment as is not raised in the manner hereinbefore provided, and all that part of the compensation which is apportioned, as above provided, to

any county or township, shall be assessed, levied and collected on all taxable property of said city, county or township, as the case may be, in the same manner as general taxes are assessed and collected.

SEC. 24. The making of said separation of grades, whether in any railroad or in any street or highway, and of all other changes necessary to carry out the plan set forth in the resolution or certificate provided for by section three, or in the report provided for in section nine, shall not be postponed or delayed on account of the non-payment of any of the sums so awarded as compensation, nor shall the payment of any of the sums so awarded as compensation be a condition precedent to the mak-

ing of any said changes to carry out the said plan.

SEC. 25. All changes of grades in any railroad or railroads, and all changes in said railroad or railroads consequent on said separation of grades, shall be made and carried out by the municipality made a party to said proceedings. When, according to said plan of separation of grades, the street or highway will cross the railroad by an overhead bridge, the framework of that part of said bridge within the side lines of the right of way and all abutments and supports sustaining that. part of said bridge, shall be built, maintained and kept in repair by the railroad company, or, where such bridge crosses the right of way of more than one railroad company, by said companies. When, according to said plan of separation of grades, the street or highway will pass under a railroad or railroads, the railroad bridge, its abutments and the sustaining walls along the highway within the side lines of its own right of way shall be built, maintained and kept in repair by each railroad company. The surface and approaches of such bridge over which the street or highway passes, and such public way under such railroad or railroads, and the approaches thereto, shall be constructed, maintained and kept in repair by the township, county or city within which the same are situate, or, in the case of line crossings, by the joint action and under the joint supervision of the representative board or officer of the county or township, and of the persons or bodies in whom, by the charter of the city, the power to contract for and supervise the pavements of streets is vested, as the case may be. The expense of all work to be done by any railroad shall be paid by said railroad, or in case work is to be done by two or more railroads jointly, the expense shall be shared equally among them. The expense of all work to be done by any city, county or township, shall be paid by such city, county or township, or in case work is to be done by a city and county or counties, township or townships, jointly, the expense shall be shared equally among them. Such expense imposed on any city, county or township shall be provided for by taxation in like manner as its other expenses are provided for.

SEC. 26. Said order of confirmation shall, after reciting the substance of the verdict, and declaring the same confirmed, provide that the several amounts therein assessed against the railroad company or companies, and the several bodies politic and corporate, who are parties to the proceedings, shall be paid by them respectively within one year from the date of final confirmation, and that the change or changes of grade found to be necessary by said verdict, shall be made by the parties on whom the duty of making them respectively is imposed, within such reasonable time as the court shall in said order determine, not exceeding

one year from the date of said order. Such judgment shall have the force and effect of a decree in chancery and may be enforced by the court making the same, in any manner provided for the enforcement of chancery decrees.

SEC. 27. The officers, jurors and witnesses in any proceedings under this act shall be entitled to receive from the city, county or township instituting the proceedings, the same fees and compensation as are provided by law for similar services in an ordinary action at law in the circuit courts of the State.

SEC. 28. All the expenses and costs of proceedings under this act incurred by any municipality, county or township instituting the same, shall be paid out of the general fund, highway fund, or the fund provided for such purposes, as the case may be. It shall be lawful for the judge in any case to order the payment, by the city, county or township instituting the proceedings, to any respondent, of such reasonable attorney fee as he may deem just, not exceeding twenty-five dollars, which may be taxed with the other costs.

SEC. 29. It shall not be necessary, in any proceedings under this act, to give evidence in making out the prima facie case, of the party instituting the proceedings, of the ownership of interest of any of the respondents in any of the lands described in said petition as damaged or affected by said changes of grades, but the averments of said petition as to such matters shall, unless evidence is put in by the respondents contradictory thereof, be taken as true.

SEC. 30. In the city of Detroit, the city counselor or other officer who may be the head of the legal department of said city, shall perform the duties required by this act to be performed by the city attorney, and wherever the term city attorney shall be used herein, it shall as to and in said city be deemed to mean the city counselor or other head of the legal department.

### CONCERNING STATE SUPERVISION OF ELECTRIC RAILWAYS.

By different enactments of the State legislature, limited control of certain matters connected with the supervisory control of street railway companies has been given to this department. It now has definite power to define the manner and form of crossings made by street railways over and through the tracks of steam railroads. It has the power to regulate the manner and form in which the wires of a street railway company shall be constructed over the right of way and tracks of a steam railroad company. Both of the powers conferred by the legislation above mentioned, have been executed by this department with reasonable activity as a portion of its well-defined duties. Under the first power, the department has caused safety appliances in the way of derailing devices to be placed at many dangerous points in the State, and is completing its labor of investigating all crossings of steam railroads by electric railways, with a view to having safety devices installed at all such cross-Under the second power above mentioned, all trolley and other wires of street railway companies at the point of crossing steam railroads, are now constructed under specifications furnished by this department, and are being complied with in a substantial manner. Constant surveillance by frequent inspections is kept over this branch of the department's duties, and no accidents during the past year have occurred from defective wires at these points. No objection has been met with on the part of the street railway companies subject to our jurisdiction to this extent, all orders heretofore made having been promptly obeyed.

### ADDITIONAL LEGISLATION.

The last legislature, through provisions of act No. 102 of the public acts of 1897, sought to give this department supervisory control of corporations organized and operated under what is known as the "General Street Railway Act." The act seems to be adequate for that purpose under the provisions for the control of street railways doing suburban express business, and no others. The difficulties presented by this enactment are three fold: First, The act is uncertain as to the jurisdiction sought to be conferred by it, by its terms being doubtful as to whether the department has any jurisdiction over roads carrying freight and passengers, but not doing suburban express business in the technical sense of that term; Second, All corporations doing an express, freight and suburban passenger business, are not organized and doing business under the provisions of the law amended by said act No. 102, as some are organized under what is known as the "Train Railway Law," thus limiting the jurisdiction of the department to a few of such street railways as are organized and doing business under the street railway law above referred to; Third, Under the organic law of this department, provision has been made for the conduct thereof as to the matter of expense with a view to the supervision and control of steam railroads only; and therefore, no funds have been provided for the full and complete supervisory control of street railways, even if that control was absolute and beyond the question of doubt to the extent specified.

In connection with the last proposition, it goes without argument that the subject of electricity and its use in the transportation business is a specialty, requiring expert knowledge for a safe and proper regulation thereof; and the department could not safely and properly interfere with the management and supervisory control of such properties without the aid of competent assistants versed in the business. The expense in which this would involve the department would not be great, as in all other respects except so far as the use of electricity is concerned, the business of these companies is kindred with that of steam railroads, and the rules and regulations adopted under the supervisory control of the one, would apply in the majority of cases in the supervisory control of the other.

## NECESSITY FOR THE EXERCISE OF POLICE POWER OVER ELECTRIC BAILWAYS.

The police powers of the State over electric railways are, of course, similar to its powers over all quasi public corporations, but in the case of these corporations have not been exercised except to the limited extent hereinbefore mentioned. There has been an indifferent attempt

in some cities, by ordinance, or otherwise, to regulate them; but the power has been exercised indifferently, generally being reserved for the board of aldermen granting the franchises, without the employment of experts or others persons whose immediate business it has been to make anything like regular investigations or inspections. Probably on account of the expense which would be attached thereto and made burdensome to all municipalities except one or two of the larger ones in the State. Even though the municipality exercises the power, it would still be objectionable, on account of a lack of uniformity of rules and regulations which would obtain in different parts of the State, and upon systems extending beyond the boundaries of the city limits, where the power, if exercised, would be by a different municipality and different authority.

The necessity for State supervision, by which these corporations would be brought under uniform rules established by a competent department, is easily established by a record of accidents and catastrophies occurring upon some of the interurban roads of the State during the current year, a descriptive list of which is herewith given; the cause of the accident being apparent from the situation existing at the point of accident, and the manner of its occurrence.

On July 7, 1897, a car on the Inter Urban Railway, in operation between Bay City and Saginaw, plunged into the Saginaw river while the drawbridge across the river was open. The result of the accident was the death of eight persons and injuries resulting to others. Safety appliances at the bridge would have prevented the accident, authority to order which was not then vested in this department.

On August 18, a car operated upon the Bay Cities Consolidated Railway collided with a Grand Trunk switching train on Center avenue in West Bay City, entirely demolishing the street car and injuring the motorman; other injuries were only prevented by the absence of persons that could be injured.

On October 29, a car on the Inter Urban Railway collided with a Flint & Pere Marquette switching train at Brown's spur near Mershon, during a heavy fog. No injuries resulted from the collision.

On November 29, a car on the Inter Urban Railway ran through and over the safety devices ordered by this department on the tracks of the Michigan Central Railroad crossing at Zilwaukee a distance of 70 feet after it lost its electric current, obstructing the track on the steam railroad and Inter Urban road at that point for twelve hours.

On December 4, two cars on the Oakland Railway, operating between Detroit and Pontiac, coming from opposite directions, at nearly if not quite full speed, collided at Birmingham, instantly killing three persons, fatally injuring two, and injuring a large number of others. The cause of this accident is now under investigation by this department, but will probably be completed too late for the present report.

In view of the above accidents and of the investigations made by this department at other points in the State where similar or other accidents are likely to occur, I desire to make the following recommendations as to the authority to be given this department, if deemed expedient, through the force of the general law applying to street railways generally without reference to the act under which they are incorporated:

(a) The department should have authority to regulate the speed of cars, limiting those to low rate of speed that do not have suitable weight and are not properly constructed for that purpose;

(b) The department should be authorized to insist upon the use of standard motors and cars, with a view to obtaining the greatest safety

for the traveling public:

-(c) It should have the power to require pilots or fenders, and sufficient

air, power or track breaks where the situation requires them;

(d) On extensive systems the department should have the power to regulate the manner of operating trains upon single tracks, by requiring a system of train dispatching or other safety regulation;

(e) It should advise and consult with the companies with reference to the amount of training required of motormen and conductors for the

safe management of this class of transportation;

(f) It should have the power to require safety appliances at crossings of other street railways, as well as railroads.

These are the principal duties which should devolve upon the department in any new enactment by the legislature upon the subject, to which others may be added, if the law is made general in its provisions.

This class of rapid transit provided by these companies has been and will continue to be of vast benefit to the traveling public. And it is not considered by this department that it is desirable to limit the speed of trains upon these lines to the least extent, but rather encourage an increase thereof, having in view, however, the safety of the traveling public.

In closing this subject, permit me to suggest that owing to the present financial condition of this class of companies, the State would be much aided in a speedy submission to its orders, if these companies were limited in the amount of bonded indebtedness which they might place upon their property, thereby increasing their fixed charges and lessening the funds necessary for the proper maintenance of their properties.

### INTERCHANGEABLE MILEAGE BOOKS.

During the present year the railroads constituting the voluntary association, known as the Central Passenger Association, has issued a thousand-mile ticket upon the following conditions, among others:

1. The original cost of the ticket to be \$30.

2. The book itself not good for transportation, but only for the purpose of obtaining transportation; evidenced by trip tickets to be issued upon the presentation of the book for redemption.

3. Transportation for a continuous passage over more than one line of railroad cannot be obtained upon it, nor can baggage be checked

bevond the point of the line issuing trip ticket.

4. After the company has redeemed the book by issuing trip tickets equal to the book's mileage, the holder receives a rebate of ten dollars.

The book became unpopular from the date of its issue, the objectionable features being the delay at stations in obtaining the trip ticket, the inconvenience of obtaining a new trip ticket on a continuous journey over more than one system, and, as well, the inconvenience of rechecking

baggage on the same trip.

From ex parte information received at this department it is claimed that this mileage book was issued as the result of negotiations with certain members of the commercial travelers' organization of the State. Both the railroads and the men whom the ticket was designed to please are disappointed, and active measures are now being taken to bring about changes in its form and its use.

In connection with this subject, I desire to call your attention to the 9th subdivision of section 3322 of Howell's Annotated Statutes of the State of Michigan, the portion of the section bearing on the subject being as follows: "One thousand mile tickets shall be kept for sale at the principal ticket offices of all railroad companies in this State, or carrying on business partly within and without the limits of this State at a price not exceeding \$20 in the lower peninsula and \$25 in the upper peninsula. Such one thousand mile tickets may be made non-transferable and, whenever required by the purchaser, they shall be issued in the names of the purchaser, his wife and children, designating name of each on such ticket, etc."

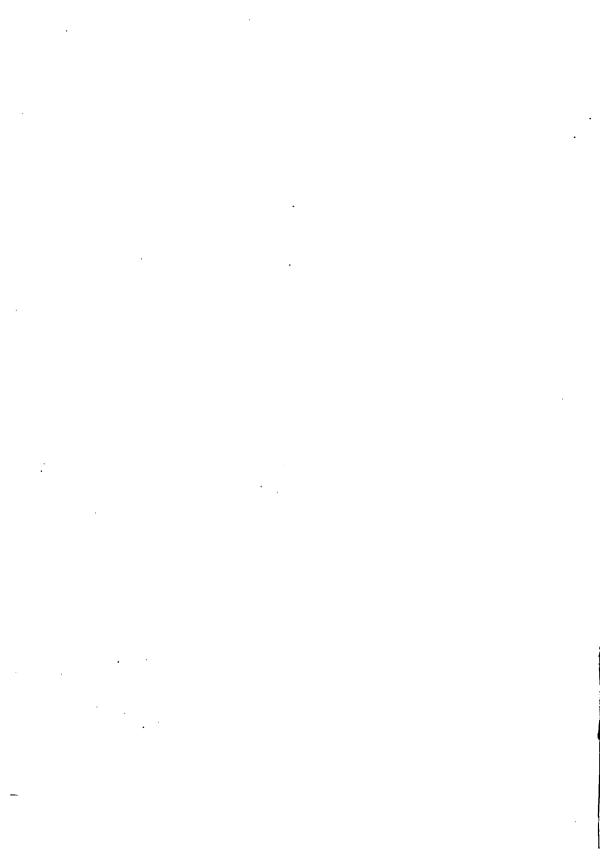
It is apparent that the mileage book above named is issued in violation of the above statute, the validity of which has just been established by a decision of the Supreme Court of the State of Michigan. While a majority of the roads are issuing the above ticket as well as the one adopted by the Central Passenger Association, some of them are violating the provisions of the law and for this violation no reasonable excuse is offered. A condition exists therefore with reference to this matter unparalleled in the history of the State. The companies exact from the State, and justly so, the service of the constabulary thereof in the protection of their property, an obedience to the requirements of any statute passed for their benefit, as well as an obedience to rules and regulations adopted by themselves. With a boldness rarely heard of outside of criminal circles some of them are violating this statute without apology or excuse. I therefore recommend that in the absence of a penalty in the statute itself, the matter be referred to the Attorney General, and in view of the enormity of the offense committed, that proceedings be taken for the annullment of the charters of such companies as persist in the violation of the law.

The names of the companies and the extent of the violations by them are now being obtained by this department and will be submitted to you in due time. While the remedy suggested may, at first sight, appear to you as too radical, especially as it may disturb to an extent the value of securities issued by the offending company, yet upon reflection I think you will conclude with this department that the remedy proposed is

not more radical than the violation of the law is flagrant.

# REPORTS AND RECOMMENDATIONS

AFFECTING PHYSICAL CONDITION OF ROADS



# PHYSICAL CONDITION OF MICHIGAN RAILROADS.

I herewith submit a report of the physical and mechanical status of the railroads in Michigan, as per record of special and regular inspections prior to and including October 31, 1897.

### PERMANENT WAY.

Nearly all the railroad companies continue to purchase heavier steel rails. The "rail section" has been much improved, and the usual weight per yard of rails used in renewal is from 67 to 80 pounds.

In laying new rails the question of expansion and contraction has been the subject of attention and experiment, allowances being made with special reference to the nature of the soil, whether continually filled with water or free from moisture, whether line is shaded or subjected to the hot sun, or the nature of the subsoil as to solidity.

Many companies now consider it important to note the variations in different sections of road in making adjustment at rail joints, rather than the usual custom of allowance for highest and lowest temperatures only.

Some of the larger systems are utilizing worn steel by sawing off the ends of rails, matching it with regard to length and previous wear and laying it with trussed or supported joints.

Worn rail thus treated makes very good track, several portions inspected that have been in service two years showing very satisfactory results.

## TIES.

This very important item is receiving close attention on the part of all companies. Some of the large systems in the southern portion of the State use ties of white oak exclusively, while the majority of roads use cedar and hemlock on tangents with oak in curves. Cedar is rapidly coming into favor as the best and most economical timber for ties that is available in this State, especially on the lighter traffic lines, and when used with tie plates is considered equal to oak in durability and safety for heavy traffic roads. The condition of the ties on the various roads is very satisfactory as compared with previous years.

#### BALLAST.

The amount of ballast provided and put in track on most of the roads has been comparatively small and insufficient during the past season. This has been on account of retrenchment in expense of operation chiefly, though it is generally conceded that it is false economy. The importance of good ballast, upholding ties from clay or subsoil and giving easy drainage cannot be overestimated. Gravel and cinders constitute the material for ballast in the order named.

### SURFACE AND ALIGNMENT OF TRACK.

It is noted that aside from the main traffic lines of the large systems the general condition of track surface and alignment is not as good as on former inspections. This is due to lack of ballast and to insufficiency of track force, many cases being noted where two or three men, including foreman, have care of six miles of track besides contiguous Safety to the traveling public largely depends upon the standard of track and maintenance of same, and it is a positive conclusion that a road allowed to run down in track details is an expensive one to operate. Retrenchment in other branches of service would be better. The various duties expected of the limited track force on some of the roads is surprising and almost incredible. On one occasion it was noted that upon a section of six miles with two men composing the gang, one was flagging in a dangerous locality, while the other was assisting in replacing a broken rail. It is perhaps needless to say that the department has directed its efforts toward a better track service than above mentioned.

A great improvement is noted in the elevation and alignment of curves. The practice of adjusting curves by old rules upon which trackmasters differed materially, has given way to scientific formula, relining and spiraling the curves by instrument and adjusting the elevation to the highest speed required.

It is held that the safety of passengers is most important and curves should at all times be adjusted for the maximum speed and not for the average speed required for mixed traffic.

## SWITCHES AND FROGS.

Stub switches are being rapidly replaced by split point switches on nearly all roads in the State. The split point switch requires competent care and inspection and gives good satisfaction. Rigid switch stands are taking precedence over the automatic or spring type for main track switches, it being conceded by practical experience that they are more positive and safer. Some of the roads use reinforced points and find them very satisfactory, the number of parts being lessened, greater strength obtained and less trouble experienced in maintenance.

The item of blocking frogs, guard rails and switches is very important. Nearly all the railroad companies pay particular attention to filling all angles with blocking made of wood. Wooden blocking is troublesome to keep in place, decays quickly, and when not properly kept in position there is no less liability to accident than without any blocking. Some states have condemned blocking made of wood, prohibited its use and stipulated the use of metal for the purpose. Accidents to employés by being caught in rail angles have been very few during the period under report.

### BRIDGES.

The bridge structures in the State are generally efficient. Very few renewals of important bridges have been made during the year, the improvements being in way of reducing or entirely filling the bridges with earth embankment or in temporary repair. A large number of inspections of bridges and track openings have been made, in several cases specific orders issued for renewal or repair, and on all bridges where the factor of safety is in doubt trains are run at reduced rates of speed, and the structures are under constant surveillance until repairs or renewals are completed.

The item of guard rails on bridge floors to guide the wheels of derailed trains is not receiving the attention desired for safety by many roads in the State. Many companies do not consider this precaution necessary, while others consider it of great importance. I am convinced that in the interest of public safety guard rails should be provided on every bridge opening over 12 feet in length. They should be constructed of steel not less than 60 pounds to yard bolted, with angle bars, firmly spiked in position with ends on approaches to bridge depressed so as to prevent brake beams or broken parts of cars or engines from catching ends of rails and thereby increasing the danger.

## INTERLOCKING SWITCHES AND SIGNALS.

The general condition of the interlocking switch and signal systems at railroad crossings and junctions has been much improved during the past year. There are 101 of these appliances that have been ordered by the Board of Railroad Crossings, Commissioner of Railroads, or put in by mutual consent of the companies in interest. Of this number all are in serviceable condition except four; three are in process of repair or renewal, and orders for the renewal of one are withheld pending negotiations for changes in crossing.

The details of operation of these appliances, as stipulated in official orders of approval, are generally complied with, except that the limit of speed specified is generally exceeded, and in some instances speed of fast trains is not decreased while passing interlocked crossings. I urge that distant signals at interlocked crossings on main traffic routes where fast time is required should be electrically locked, so as to prevent any interference with the machine until the entire train is over the crossing.

The expense of electrically locked levers operating derailers or signals, is inconsiderable as compared with the factor of safety obtained when large and heavy passenger trains are run over interlocked crossings at a high rate of speed. It is very important that there should be a reform in the observance of rules of all railroad companies in this matter, which are made in compliance with orders of approvals of these appliances, by this department, on all high speed routes, if electric locks are not provided as outlined above.

The Board of Railroad Crossings have ordered 16 switch and signal systems during 1897 at crossings of new lines, which are not included in the number previously given. One of these has been finished and approved, and the others are in process of construction. Four are full interlocking systems at crossings of main lines, twelve are half-interlockers at crossings of secondary tracks, spurs or sidings by main traffic lines.

It has been recommended to the board by this department that all new crossings of secondary or switching tracks by main lines should be provided with half-interlocking machines to be operated by trainmen on switching tracks. The importance of this action lies in the fact that in foggy or stormy weather signals on gates at crossings are inadequate, especially when high speed is required on the main lines. This recommendation was indorsed by the Crossing Board and all orders approving crossings issued in compliance therewith. During the year there have been no derailments at interlocked crossings involving casualties or excessive damages.

# RAILROAD AND STREET RAILWAY CROSSINGS.

The subject of adequate protection against accident from collision at this class of grade crossings has received considerable attention; all crossings have been inspected by this department, and mechanical devices ordered at several of the more dangerous ones, while at others, investigations are pending regarding the necessities and nature of appliances to be provided.

There are two methods of mechanical protection that have been adopted for use at this class of crossings. One is a half-interlocking machine with derailers and signals on street railway tracks, signals on steam railroads properly placed according to varying conditions, which are manipulated by levers properly interlocked so that conflicting signals cannot be given and operated by a joint employé from a tower at crossing who may also operate gates for street protection.

The other method consists of derailers placed in electric railway tracks which are connected with levers placed near crossing at best point of vision of approaching trains on steam tracks and to be operated by conductor of electric car after it has been stopped at derailing switch.

The former method is necessary and gives good satisfaction at crossings where there are many tracks, where the traffic is heavy and where movements over the crossing are very frequent.

The latter method has proved satisfactory on single and light traffic crossings. Signals are sometimes necessary when this form of appliance-

is used, to be placed on steam tracks and interlocked with derailers, if view of approaching trains is obscured.

At the inspections of this class of crossings made on July 22, 23 and 24, 1897, 14 crossings of this character in this State were found on which some form of mechanical protection was recommended. These recommendations were made upon consideration of three points, viz.: 1st, the amount of traffic over crossings on each line; 2nd, the customary speed of trains on steam roads; 3d, the obstruction to view of approaching steam trains.

In considering the conditions named, protection was recommended only at crossings where it was absolutely necessary, and where the protection afforded to the companies operating electric lines as well as the measure of safety assured to the traveling public, would be entirely consistent with the expense incurred in the installation of the necessary appliances.

## PROTECTION AT DRAWBRIDGES.

The investigation of the disaster on the Inter Urban Railway near South Bay City on July 7, 1897, caused by an electric car plunging through an open draw into Saginaw river, resulting in the death of eight persons and many serious injuries, was made by me through the mechanical engineer of the department on July 8. The report thereof leads to a positive conclusion that adequate mechanical protection at all points where railways cross drawbridges is an imperative necessity. A scheme to properly protect trains or cars against accident at these points is entirely feasible from a mechanical standpoint, and will be economical to the railway companies in operation, and will protect their property interests, as well as assure safety to the traveling public. appliances provided, properly designed, and approved by this department would dispense with the necessity of trains or cars being brought to a full stop before crossing drawbridges; allowing them to proceed under restricted speed when route and signals are properly set for them. I submit that legislation providing authority to dictate said devices at all drawbridges in this State is an urgent necessity.

## EQUIPMENT.

The general status of motive power, passenger coaches and freight cars, has been much improved during the past year.

Larger and heavier locomotives, equipped with all modern safety appliances, have been purchased or built by a number of companies operating railroads in this State.

The requirements of law relative to standard height of draw-bars from the rail and the application of grip-irons to freight cars have been complied with. Considerable progress has been made in the equipment of freight cars with automatic couplers and air brakes, as evidenced by reports to this department, though none of the companies have fully complied with the national law that all such cars should be so equipped before January 1, 1898.

I herewith give a table showing number of freight cars owned by each company; number equipped with automatic couplers and air brakes, also number equipped with couplers during the present year to and including October 1st, 1897:

Railroads.	Freight oars owned, number.	Freight cars equip- ped with automatic couplers, number.	Percent- age of cars equipped with automatic couplers.	Freight cars equip- ped with air brakes, number.	ireight	period
Ann Arbor	1,805	1,186	65.70	728	40.22	
Boyne City & Southeastern. Chicago & Grand Trunk System.	33 1,290	350	27.18	309	20.81	262
Chicago, Kajamasoo & Saginaw.	1,250			1 2		
Chicago, Milwaukee & St. Paul.	27,523	19,165	69.68	13,408	48.71	4,689
Chicago & Northwestern	85.017	80,523	87.	22,458	64.	5,228
Chicago & West Michigan	2,668	1,928	72.	351	13.	450
Cincinnati Jackson & Mackinaw	1,042	355	84.			110
Detroit, Grand Rapids & Western System	1,218	880	71.	13	1.	450
Detroit & Mackinac	483	207	48.	160	83.	29
Duluth, South Shore & Atlantic.	8,078	1,061	34.	627	20.	
Flint & Pere Marquette	3,395	1,141	84.	_6		818
Grand Rapids & Indiana System Hancock & Calumet	3,130 277	2,160 100	69. 36.	787	25.	389
Lake Shore & Michigan Southern						1
System	18,841	18,720	99.	18,513	71.	2,208
Lowell & Hastings	5					
Manistique Michigan Central System	10,848	7,968	83. 73.	3,651	38.	. 1,846
Mineral Range	183		!	ļ	ļ	
Minneapolis, St. Paul & Sault						
Ste. Marie	6,057	2,089	84.	1,325	22.	1,142
Munising	261	200	76.	200	76.	
Milwaukee, Benton Harbor &						
Columbus	22	1 .7	82.	1 .7	32.	
Wisconsin & Michigan	578 <b>496</b>	578 190	100. 38.	10 88	2. 19.	30
Total	119,298	88,804	74.	57,636	48.	17,146

## HIGHWAY CROSSING ALARM BELLS.

This method of street or highway crossing protection is coming into extensive use in this State.

There are 60 crossings protected by this system, 43 by automatic alarms and 17 that are controlled manually by signalmen stationed at adjacent crossings or interlockings. These alarm bells are actuated or controlled by electric or pneumatic power, the former almost exclusively, either as the power for operating the alarm or controlling the automatic features of the appliances. The effect and practical utility of this class of signals would be much greater if more competent care and supervision were given them. The attached statement of failures is not, in my opinion, due so much to defects in the different types of alarm bells as to neglect in providing competent care and maintenance.

During the fiscal year ending June 30, 1897, the automatic alarms were out of service from breakage or failure of mechanism 3.795 hours.

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CAR FERRY "ANN ARBOR No. 1"

or a percentage of 88.25 hours at each crossing during that period. These figures are taken from daily reports of inspection submitted to this department, and it is noted that there were seven crossings that were thus protected where the service was continuous.

I am of the opinion that with proper construction and care in maintenance this method of protection is adequate at a certain class of crossings.

## SIGNS AND WHISTLING POSTS.

A large number of highway crossing signs were found to be weather beaten and the inscriptions thereon hardly discernible. In every case is was promised that the old crossing signs should be renewed at once. On several roads highway crossing signs were noticed with letters smaller than the standard required by law in this State. All renewals will be made with letters 12 inches in height.

At the request of several locomotive engineers the matter of whistling posts to designate point at which whistle should be blown for highway crossings was taken up for consideration. The following roads were noted as without such posts: Michigan Central Railroad, Flint & Pere Marquette Railroad, Detroit & Mackinac Railway, Saginaw, Tuscola & Huron Railroad. The Mechanical Engineer made a report thereon and submitted the following: "On a number of railroads in this State whistling posts have not been provided and placed to indicate distance from highway crossings at which whistle must be blown as required by law.

"The consideration of the matter has been brought to my attention by engineers who, while they do not make specific complaint, claim that whistling posts properly placed would materially help them in the strict observance of the law.

"It is held that in foggy or heavy weather, either rain or snow, when necessity for whistle signals is greatest, and the absence of landmarks owing to similarity in the surface of surrounding country, it is almost impossible to blow whistle at proper distance from crossing; instances being common when the whistle would be blown too far away and repeated, or when the wing fences would come in view, which would not be over 100 feet from crossing.

"Further, that whistling posts act as a prompter when the attention of the engineer is momentarily attracted by other duties, and that the common view of posts set for this purpose stimulates positive action in this important duty.

"From practical experience I consider these arguments reasonable and worth serious consideration.

"I therefore recommend that railroad companies that have not placed whistling posts to indicate where signals should be blown, should be required to provide them.

"Owing to the increased speed of trains since the law was passed; I suggest sixty rods as a proper distance to place the posts from the crossing."

Upon the presentation of this report to the railroad companies above named, it was mutually agreed that the whistling posts should be provided at once and placed as recommended without an official order from this department.

### BLOCK SIGNALING.

The practice of blocking trains by a system of signals which permits only one train in certain limits at the same time is becoming general on some of the roads in this State.

On a number of single track lines a permissive system of blocking is used, allowing trains to follow after a preceding train has passed into a block a certain time limit. On others a positive block of trains is made by operators using station or other fixed signals manually controlled and operated.

## AUTOMATIC BLOCK SIGNALING.

Realizing the importance of automatic block signaling on heavy traffic lines, especially on double tracks, I herewith submit a practical description of the different types, with approximate cost of installation and maintenance.

The automatic block signal system, which has been developed within the last few years, is now recognized as a system of exceptional merit for the safe and rapid handling of trains, with no cost for operation, and a reasonable cost for maintenance. With this system the signals are actuated by trains and controlled and operated by electric, pneumatic, or other agency. Pneumatic power is used only for operating the semaphore type of signal, but electricity is extensively used, both as the power for operating the signals and as the controlling power in connection with the automatic features of the system. This system is used extensively on double track by several of the leading roads of this country, over sixty miles of double track blocking being in service on the M. C. R. R. in this State. On this road the average length of the blocks is two miles, the blocks being shortened at terminal points and yards. In general the lengths of the blocks are determined by the volume of traffic and local conditions, such as yards, grades, curves, etc.

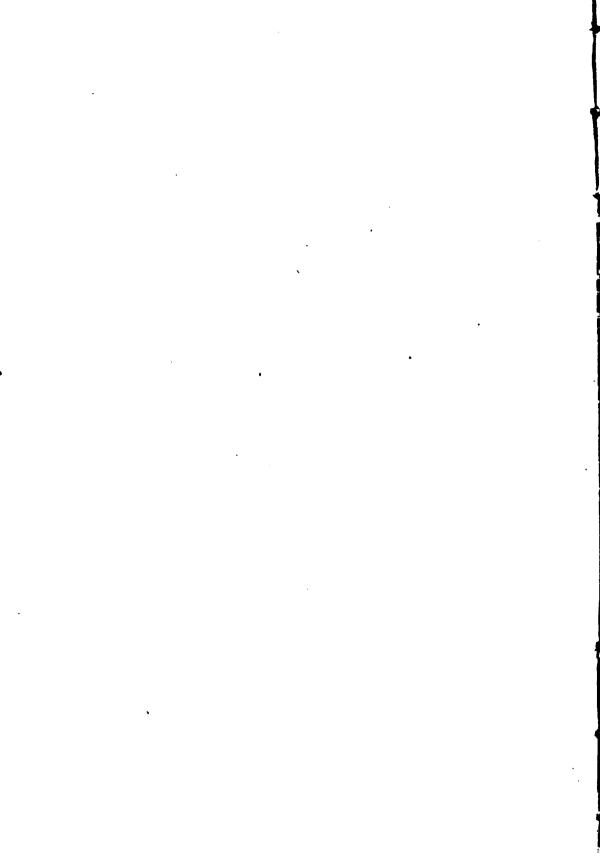
In order to provide against a train overrunning a block signal and colliding with a train which might be standing a short distance within the block, either caution signals are placed from 2,000 to 2,500 feet in advance of their respective block signals and indicate their position, or the clearance points of the signals are so placed that a block signal will not clear until the rear end of a train has passed 2,000 or 2,500 feet beyond the next signal.

There are practically only two types of automatic signals as regards the track controlling devices, which devices, with their controlling circuits, constitute the automatic feature of this system. These types are respectively the track instrument, and the track circuit types. Electricity is almost universally employed as the controlling power for each type on account of its reliability and its adaptability to the purposes required.

In the former system, instruments of suitable design are placed alongside of the track at the beginning and end of each block, a lever extending from the instrument to the outside rail of the track and so placed as to be depressed by the wheels of a passing train. The depressing of the lever of the instrument by a train at the entrance end of the block opens a spring in the track instrument, which breaks the circuit of



"PERE MARQUETTE" CROSSING LAKE MICHIGAN



the signal controlling relay, the latter in turn cutting off the power that holds the signal in the clear position and allows the signal to assume the danger position by gravity, in which position it will remain until the train passes over the clearing instrument placed at the outgoing end of the block. The operation of the latter instrument closes the controlling

circuit and restores the power which clears the signal.

With the "permissive" system of blocking, which permits of a train passing a danger signal, after waiting a certain length of time, and entering a block at slow speed, when the block is already occupied by a preceding train, intermediate instruments, between the set and clear instruments, are used to prevent the first train clearing the signal upon passing out of the block and leaving the second train unprotected. The clearing instrument is so constructed as to hold the circuit of the signal controlling relay open until the rear end of the train has passed the instrument. When caution signals are not used, the clearing instrument, for a signal, is placed far enough within the block beyond the next signal so as to provide the same measure of safety as is provided by the caution signal.

## TRACK CIRCUIT SYSTEM.

The essential feature of the track circuit system is the utilizing of the rails of the track as the medium for the flow of the current which operates the signal controlling relays. The track of the block is divided into two or more subdivisions, low voltage battery being placed at one end of each subdivision and a relay at the other end. The rails at the ends of the subdivisions are insulated from each other by means of wooden splice bars and the insertion of fibre and posts between rail ends. All of the rail joints between the ends of subdivisions are bonded so as to assure an uninterrupted flow of the current. It is necessary to divide the track of a block into at least two sections, in order that, where caution signals are used, the section between the caution signal and its block signal will control the former, or where the overlap system is employed, in lieu of the caution signal, the first section of a block, which is the overlap section, must control both the signal at the entrance to the block and the signal of the preceding block as well. In blocks 11 miles long, or over, the track is divided into three or more sections, as the conditions require, in order that in wet weather there will not be so much loss of current as to prevent working the track relays.

Each one of the track relays of a block controls the operating power of the signal directly, or by means of auxiliary relays and circuits. The first pair of wheels of a train upon entering a block will set the signal to danger by means of opening the points of a track relay. The wheels and axles of a truck having practically no resistance to the flow of current, provide an easier path for the flow of the track battery current than does the track relay which has at least four ohms resistance, in consequence of which the current, instead of going through the track relay, returns to battery by means of the wheels and axle of the truck; the track relay being robbed of its current, allows the armature to drop, cuts off the signal operating power and the signal goes to danger.

In either the track instrument of the track circuit system the circuits are so arranged that any interruption of the flow of the current cuts off



the power which holds the signal in the clear position and allows same to go to danger by gravity.

All switches leading into, or in the main tracks, are so connected with the block system that the opening of a switch  $\frac{1}{4}$  inch or over, sets to danger the signal of the block in which such switch is located.

With the track circuit system, indicators are placed at all main track switches and are used to indicate or announce the approach of a train by the display of a red disc or the ringing of a bell. When a train closely approaches, or is inside of block in which a switch is located, a visible or audible indication is given of the approach of such train, which indication is a warning against the opening of a switch until the train has passed or a clear indication is shown. With this system, a car occupying any portion of the main track, or standing on the side track fouling the main track, or a broken rail in the main track, will hold the signal at danger. Should several trains occupy a block it would be impossible for the signal to clear until the last train had left the block. same safeguards cannot be obtained with the track instrument system. a train breaking in two and leaving the rear portion in a block, the first portion upon passing out of the block will clear the signal and leave the rear end unprotected. A car fouling main track, and a broken rail in the main track have no control of the signal in the latter system. Both systems are about equally reliable as regards the unusual display of danger signals due to defects in the system. It therefore follows that the track circuit system, which offers the greatest degree of protection, with equally reliable operation, is preferable, and warranted the railroads in adopting it for all recent applications.

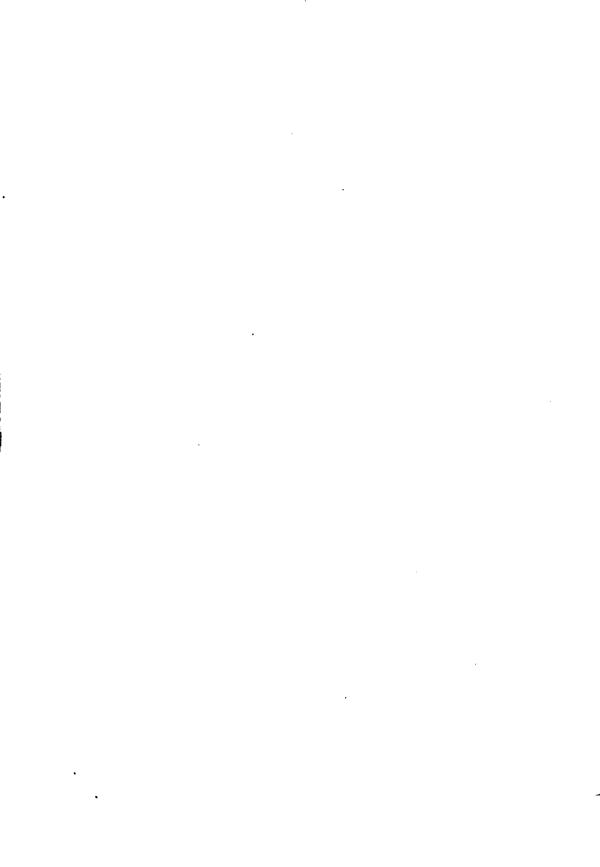
The cost per mile of the double track, for the installation of the track circuit system of automatic block signals is from \$1,000 to \$1,500, depending on the length of the blocks, number of switches, and the type of signal used.

The cost of maintenance which is affected by the same conditions as for installation, is from \$155 to \$165 per mile of double track.

Automatic signals are used very little on single track. The fact that it is not considered feasible to use the absolute system of blocking with automatic signals on account of the seriousness of the delays which would be caused when signals stand at danger through the failure of battery, etc., and the further fact that it has been deemed necessary to employ the absolute system to prevent "head on" collisions, has discouraged their use.

It is apparently practicable to use the permissive system of automatic block signals on single track for the safe operation of trains moving in the same direction, while at the same time some immunity can be secured from the danger of "head on" collisions. The dispatchers, being relieved of the duty of spacing trains which are going in the same direction, can more easily and safely handle meeting trains. Experience may teach that single track automatic signaling, operated under permissive rules, is as safe and expeditious a method of handling trains as the lock and block system of manually operated and controlled blocking, while being the cheaper system to operate and maintain.

The above information, given in technical language, is designed more particularly to aid such companies in Michigan as are intending to adopt





"PERE MARQUETTE" AT DOCK, LOADING

new and improved signal systems, and as well to those which may hereafter be required to adopt the same, there being one or more points in Michigan where the adoption of this system seems to be absolutely necessary to secure the public safety.

#### CAR FERRIES.

In addition to the activity in building new and additional lines of railroad within the State, a new field of transportation has rapidly been developing by means of car ferries used for the transportation of cars with their contents across the great lakes surrounding the State, and chiefly across Lake Michigan.

Three of the most important lines of the State are now seeking to increase their business and facilities through the transportation of products over their lines from and to the west and northwest, viz., the Ann Arbor Railroad, the Flint & Pere Marquette Railroad, and Detroit, Grand Rapids & Western Railway. What is known as the "Big 4 System" also has a car ferry in operation from Benton Harbor to Chicago,

Milwaukee, and other lake ports.

Just what influence, by way of increased business, this project in rail-roading will have upon the earnings and conditions of the roads engaged therein, must, owing to imperfect data and to the business being a new venture, be left to subsequent reports. The corporations engaged therein are very hopeful of its future, and some of them, at least, claim that the successful operation of this class of business will, in the very near future, result in a change of the character of their roads from "merely local roads" to through trunk and freight line roads, and make them as profitable as any of the companies now doing a through freight and passenger business.

This method of transportation materially reduces the distance necessary to haul freight and passengers between distant points from and to the west and northwest, and by competition with all-rail routes will no doubt materially reduce freight charges on the products of the west and northwest, as well as on the products of the mines, mills and fac-

tories from the east and south to the west and northwest.

The experience of the companies that have car ferries, especially upon Lake Michigan during the last winter, has been that little or no hindrance has been experienced either from the ice formation or on account of the inclement weather. The steamers or boats used are of necessity very large and bulky, and are provided with ice crushers and other appliances for overcoming difficulties usually experienced in navigating the lakes during the winter.

The cuts, descriptions and specifications of the Pere Marquette, the largest car ferry on the lakes, operated by the F. & P. M. R. R. Company, which are given herewith, show the general idea of the car ferry

business, with data as to general plan and construction.

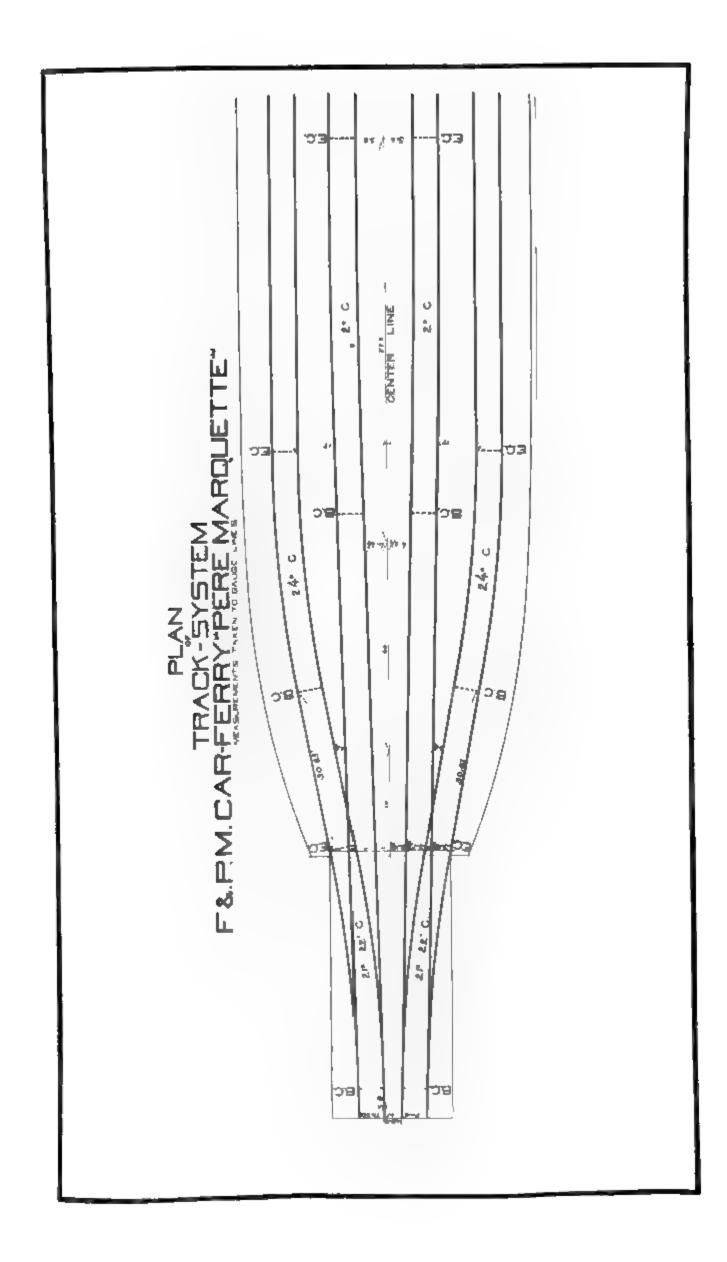
# THE CAR FERRY "PERE MARQUETTE."

The car ferry Pere Marquette was put into service on Lake Michigan between Ludington, Mich., and Manitowoc, Wis., on February 14th, 1897, and has since been making regular trips. Was built expressly for this route at F. W. Wheeler & Co.'s ship yards, West Bay City, Mich., for the Flint & Pere Marquette Railroad Company, and is a steel twin-

screw vessel of 350 feet in length overall, by 56 feet beam, with a moulded depth of 19 feet 6 inches to the main deck, which extends the full length of the vessel; above the spar deck are two substantial deckhouses for the accommodation of passengers and crew. Has four railroad tracks on the main deck to accommodate 30 standard freight cars. Especial consideration has been given to the question of strength in this vessel, so that it can with certainty be said that in the matter of weights and distribution of materials, she is the strongest steel vessel on the great lakes. The main frames are of steel channels 12 inches deep, backed up with keelsons and stringers from 4 to 6 feet apart, and at the load water line is a regular deck stringer with beams every 8 feet strongly bracketed above and below. The main sheerstrake is doubled, as is also the bow plating for a length of 60 feet; and aft, the hull is built out so as to enclose the propeller shafts and dispense with brackets or other extraneous fittings that might be liable to injury from ice. The entire construction, including the decks, is of mild steel, carefully inspected and tested to the highest requirements. The vessel is divided below the main deck into seven compartments by six watertight bulkheads, the extreme forward and aft compartments being further subdivided by a water-tight flat at the level of the water line. so that in the event of any bottom injury, the vessel would remain afloat with any one of the main compartments flooded. The propelling machinery consists of two sets of compound, vertical, direct-acting, jet condensing engines, each entirely independent of the other, having cylinders 27 inches and 56 inches diameter with a 36-inch stroke, capable of developing a maximum of 3,500 indicated horse-power, and calculated to propel the vessel at a speed of 15 miles per hour. The working part of the machinery, such as shafting and rods, have been made from 10 to 25 per cent heavier than ordinary marine practice, and the propellers, which are of cast steel of the sectional type, are also unusually Steam is supplied by four boilers, built by Wickes Brothers of Saginaw, Mich., of the single ended "Scotch" type, each 15 feet 3 inches diameter by 12 feet long, constructed for a working pressure of 130 pounds steam. In the matter of equipment, the best modern practice has been adopted, so as to insure this vessel being of the highest character in all particulars. This includes a combined hand and steam steering gear; "Providence" steam capstan windlass; stockless anchors housed in hawes pipes; four steam deck warping capstans; steam fire pumps and bilge pumps, and twelve life boats. Has a complete electric light installation, including search light. The model of the vessel has been designed to suit winter navigation, and care has been taken to insure that she shall be safe and seaworthy in every particular.

It is obvious that there is a growing necessity for a standard plan of tracks on boats and docks, height of same and size of slips, in the interest of interchange of traffic. With the possible magnitude of this method of transportation it will be found as essential to the interests of railroad companies and shippers to construct ferries and slip docks in a manner permitting interchange of business, as to have standard gauge of railroad track.

So much importance, in my opinion, attaches to this necessity that I recommend legislative action on the subject.





INTERRUPTION TO NAVIGATION AT THE PRINCIPAL PORTS IN WESTERN MICHIGAN USED OR TO BE USED BY CAR FERRIES.

As bearing upon the subject of car ferries I herewith submit information upon the condition of navigation during the winter months at the ports of Grand Haven, Frankfort, Muskegon and Ludington, furnished by the Honorable George A. Farr, Collector of Customs for the Western District of Michigan.

In reading these statistics it should be borne in mind that Ludington became a winter port January 1st, 1894; Frankfort and Muskegon February 18th, 1895, while Grand Haven has been a winter port for ten years and upwards.

Interruptions to navigation have occurred at the above mentioned ports, during the months of January, February and March, as follows:

### GRAND HAVEN.

1888. February 4 to 13 and 16 to 20.

1889. February 19 to 26.

1890. No interruptions.

1891. No interruptions.

1892. No interruptions.

1893. February 7 to 14, 15 to 21, 22 to 27.

1894. February 20 to 25.

1895. No interruptions.

1896. February 17 to 25.

1897. No interruptions.

## FRANKFORT.

1895. March 7 to 11, 21 to 24, 25 to 27.

1896. January 1 to 6, 18 to 21; February 9 to 12, 17 to 24; March 5 to 9, 23 to 27.

1897. No interruptions.

## MUSKEGON.

1895. February 18 to 21, 22 to 28; March 2 to 5, 6 to 11.

1896. January 1 to 6; February 10 to 13, 17 to 22, 28 to March 4.

1897. January 15 to 18, 24 to 28; February 22 to 26, 26 to March 1; March 25 to 30.

#### LUDINGTON.

1894. February 4 to 7, 16 to 19.

1895. January 19 to 23, 28 to February 6; February 6 to 13.

1896. No interruptions.

1897. No interruptions.

# EXTRACTS FROM REPORTS OF ANNUAL INSPECTIONS REQUIRED BY LAW.

Owing to the extent of the mileage of railroads in Michigan, the department has been hampered in making such a careful and detailed inspection of the railroads of the State as desired. While much benefit arises from an inspection by going over the roads in an observation car, yet the experience of the department in that line leads to the conclusion that facilities can now be obtained for a much better and more detailed and thorough inspection, especially so far as the same relates to culverts and bridges, and as well the general physical condition of the road and tracks. To accomplish this end the organic law of this department should be changed and the State purchase for its use a standard inspection car, to be operated by steam or other motive power. The railroad company whose properties are to be inspected should be required to give a right of way to the car over its tracks upon the request of the Commissioner of Railroads, and the same should be subjected to the train despatching service of the company; and the company should also furnish it with such attendants on the part of its employés as would make such operation upon its line safe and convenient. To make a complete inspection, this car should be manned by men competent to inspect the track and track structures, and as well by a man competent to inspect bridges and other structures.

I submit the above recommendations for such consideration as you may deem advisable to give them.

# DEPARTMENT ORDERS.

So far as practicable, without application, and in all cases where applications for hearing have been filed, this department has only made its decision after a full and complete hearing of all complaints, and in most cases after an inspection of the situation complained of.

Experience, as well as the evident justice of this course, has produced most satisfactory results in obtaining a ready compliance with the orders of the department on the part of the railroad, street railway, telegraph and telephone companies, all of whom are to a greater or less extent under the jurisdiction of this department. Such compliance has very much facilitated its work and has saved it much time which otherwise would be taken up with needless correspondence and perhaps

the spending of considerable time in the courts in enforcing the penalties of the statutes.

I am pleased to report that not to exceed seven orders of the department so far as it has information, remain uncomplied with, out of the number presented elsewhere in this report. Of these, three are against railroad companies and the balance against telephone and electric railway companies.

The penalties of the statute for non-compliance with these orders have not been enforced at the date of this report because the breach thereof has but just occurred. They will be taken up at once, and the right of the State to exercise its police power in each instance contested in the courts, if necessary.

#### ANN ARBOR BAILROAD.

A special inspection of this line, made early in July, showed fair general conditions.

Track and bridges good, except structure at Manistee river one mile north of Sherman, upon which necessary repairs were specified by this department and promptly made. Four bridges have been rebuilt, 408 feet of large iron pipe used in replacing two box culverts, in very high embankments, at Yuma and Sherman.

Amount of material used in filling, 70,000 cubic yards.

Four stations rebuilt, balance in serviceable condition. One hundred twelve thousand six hundred and fifty-five new ties have been used in renewal, and 250 tons of new steel, 70 pounds to the yard, has been laid.

This work has been done between January 1st and October 1st, 1897. Extensive improvements are in progress on terminal facilities at Frankfort; 3 miles of new track have been laid in yards at this point; a large warehouse and considerable new dockage provided.

The right of way fences along the line were found to be in bad shape, but a large amount has been built or repaired, and it is promised that the entire line shall be properly fenced at an early date.

Subsequent inspections have developed that this property has been generally improved during the year.

# AU SABLE AND NORTHWESTERN RAILROAD.

This road is a narrow gauge, 74 miles in length, and does very little general traffic business, being used principally for transportation of logs and forest products.

One mixed train is provided each way daily for public traffic, and road bed and track is found in fairly good condition.

Train equipment for public service is provided with safety appliances required by law.

The attention of this company was called to the absence of blocking for frogs and switch angles, and immediate attention was given to the same.

Thirty-five thousand new ties have been used in the track during the year.

# GRAND TRUNK SYSTEM-WESTERN DIVISION.

This system comprises all lines operated by the Grand Trunk Railway west of St. Clair Tunnel, viz.: Chicago & Grand Trunk Railway, Port Huron to Chicago; D., G. H. & M. Ry., Detroit to Grand Haven; C. S. & M. R. R., West Bay City to Durand; T. S. & M. Ry., Ashley to Muskegon; Michigan Air Line Ry., Lenox to Jackson; and Chicago, Detroit & Canada Grand Trunk Junction Ry., Port Huron to Detroit, amounting to main line mileage in Michigan of 633.47 miles.

The C. & G. T. Ry. has the distinction of doing the heaviest businessover a single track of any of the trunk lines in the State. The permanent way, track and equipment is in an excellent condition. All safety appliances required by law or used in modern practice are pro-

vided, and the road is managed by very competent officers.

The D., G. H. & M. Ry. is found in good, satisfactory condition. One of the oldest lines in the State, its reputation for good road-bed, equipment and service is maintained. New freight division terminal facilities with round house and yard are being constructed at Durand, which will also be used as eastern terminal of T. S. & M. division.

The T. S. & M. and Air Line divisions, on account of the light traffic carried, have not been so well maintained as the rest of the system, though considerable attention has been given to repairs of bridges and track on these divisions, and they are not in a dangerous condition; considerable renewal and repair will be required during the coming year.

The interlocking and signaling systems on entire line are efficiently

maintained.

The station facilities at some of the junction points where passenger transfer business is heavy, have been found to be inadequate, notably at Durand. Plans are being matured for the construction of a new passenger depot at this and other points where necessities require.

Frogs, guard rails and switches were found blocked as required by

law.

# CHICAGO, KALAMAZOO AND SAGINAW.

This road extends from Kalamazoo to Woodbury, a distance of 45 miles, and is in a good and serviceable condition.

The track is in good shape, a large number of ties having been used for renewal during the past year.

The train equipment and rolling stock are in fair condition, although no automatic couplers are furnished on freight cars.

Three hundred feet of culverts and bridges have been filled with earth during the present year.

No whistling posts for crossings are provided on this line.

## CHICAGO, MILWAUKEE AND ST. PAUL RAILROAD.

Inspected September 23d, 1897.

The line from Champion to Iron Mountain is in good condition, the steel and maintenance of track being excellent and entirely adequate for the fast passenger service afforded.

The line from Channing to Ontonagon is not in good condition, surface and alignment being not as good as noted in former reports of inspection.

It was represented by Superintendent Minturn that this was owing to an unprecedented wet season, and an unusually heavy log traffic

carried.

This portion of the track is well tied and equal to the requirements

in point of safety.

The Sidnaw trestle (the largest in the State) will be dispensed with during the coming year, a new line being constructed across the basin, composed entirely of earth embankment, with a large culvert.

The interlocking appliances at Wabik, Republic and Sidnaw are found in good, serviceable condition. It was mutually agreed that the practice of allowing trains to stand inside derailed limits at Sidnaw while

opposing route was in use, should be discontinued at once.

With reference to complaints by persons in Ontonagon and vicinity of insufficient train service, a number of leading citizens of Ontonagon were interviewed and the expression was unanimous that it would be unreasonable to urge or make issue that a train service exclusively for passengers, baggage and express should be provided under present conditions, but that a service as at present maintained should be afforded daily, except Sundays.

### CHICAGO & NORTHWESTERN.

The inspection of this line in Michigan was made September 21 and 22. The track structures, ties and steel on this line are first-class, and surface and alignment are well maintained. The main line of the Peninsula Division, Menominee to Ishpeming, is in especially good condition. The reconstruction of this line in this State, according to the general standards of this company is nearly completed, and very little fault can be found with its condition.

A target was recommended to signal trains over crossing of the D. S. S. & A. Ry. west of Negaunee, and was at once provided.

The motive power and train equipment is good, and first-class service is afforded. Two hundred and twenty-four thousand one hundred and fifty-five new ties were used in renewal in this State, and a large number of bridges rebuilt or repaired.

The blocking of frogs and other rail angles has secured proper attention.

## CHICAGO & WEST MICHIGAN AND DETROIT, GRAND RAPIDS & WESTERN.

These roads are under the same general management, and are virtually operated as one system. The track on main lines and branches is uniformly first-class, particular attention being given to surface, alignment and proper drainage.

A total of 408,767 ties were used in renewal; 2,864 tons of new steel, 70 pounds to yard, laid in track; 30 bridges and culverts filled, comprising 1,925 linear feet and requiring 4,400 cubic yards of earth, during the present year to October 1.

The fence renewals comprise 4.02 miles of new fence and 24.34 miles rebuilt during the same period.

Bridges and track structures are in good condition, and well maintained.

The station buildings are generally adequate and comfortable, though many were noted that should be renewed in the near future.

The motive power and equipment of these companies compare favorably with any in the State, and the service and management of the entire properties is very satisfactory to this department.

## CINCINNATI, JACKSON & MACKINAW BAILWAY.

This road was turned over to the Detroit, Toledo & Milwaukee Railway Company on August 1st, 1897.

An inspection of the entire property from Dundee to Allegan, which was made about this time, developed the fact that the surface and alignment of track, and the condition of bridges, was faulty in many places.

The track is generally in need of ballast, and several bridges were found to be weakened by decayed piling and timbers. These points of defect were taken up with the company in detail, and while no considerable amount of ballast has been provided this year, on account of more necessary work, the dangerous structures have been strengthened or are in process of repair.

No switch lights were found on main line switches west of Addison. Interlocking machinery at the various interlocked crossings was found

in good condition.

The general train equipment is good.

# CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS RAILWAY.

This road in Michigan extends from Benton Harbor to State line, near Grangers, and is found in good condition.

The status of the track and bridges has been improved during the year, and equipment of service on this line is satisfactory.

A large number of complaints of insufficient right of way fence have been received, and in each instance the fence complained of has been repaired as soon as possible.

We are assured that the cause for these complaints will be soon removed and sufficient fence built along the entire line in this State.

# DETROIT AND MACKINAC.

The inspection of this road was finished September 4th, and the general condition of the track, bridges and equipment show a decided improvement over previous reports. Nearly the entire main line north of Emery Junction (137 miles) has been reballasted, and a number of important bridges repaired and 1,550 tons of new rails laid in the track. This includes nine miles of new extension on the north end of the line.

The track and bridges on the Rose City branch found to be in a faulty condition, it being considered that the present state of the track

and structures would not warrant with safety to passengers and property the running of trains at the customary high rate of speed. Therefore, instructions were given from this department to reduce the speed of trains until necessary repairs should be made. Whistling posts for highway crossings are being placed to denote the point at which whistle signals shall be blown.

The motive power, coaches and other passenger train equipments are satisfactory, and equipped with all safety appliances required by law. Freight cars are being supplied with automatic couplers and air brakes.

# DULUTH, SOUTH SHORE & ATLANTIC.

Inspection made September 17, 18 and 20, 1897.

The condition of the track on the entire system is satisfactory; ties, steel and surface and alignment of track are good.

The station buildings are in poor condition generally, it being represented by the general manager that it had been considered in the best interest of the traveling public and property to use nearly all available money in maintenance of track and permanent way.

The station buildings at Seney, Munising Junction and Michigamme were found to be particularly inadequate for the public convenience and comfort, and on the 8th day of November, 1897, an order was issued requiring reasonable depot and warehouse buildings to be constructed at these points within ninety days from date thereof. The company proceeded at once in compliance with these orders at Munising Junction, but asked a rehearing regarding the other two points named. This was granted, and the matter will be decided at an early date.

Four large bridge structures were found in an unsafe condition, on account of the amount of decayed timber, rendering their strength uncertain. Orders were issued October 9th directing the company to renew or fill these bridges within one year from date of order. Service of these orders was acknowledged with assurance that they would be complied with. An order was also issued requiring a target signal at crossing of Chicago & North Western Railway one-half mile west of Negaunee, which has been complied with.

The Mineral Range Railroad, and Hancock & Calumet Railroad, which are under the same general management, were inspected September 18, 1897.

The Mineral Range Railroad was made standard gauge during the month of September, and is now operated in conjunction with the division of the South Shore line from Marquette. The general conditions, track and equipment, are good and all reasonable facilities are provided for travel or commerce.

The bridge across Portage Lake between Houghton and Hancock is considered unequal to the heavier motive power and traffic of standard gauge equipment. While the bridge has been strengthened in some respects, the factor of safety under conditions above named is uncertain, and a special inspection will be made to ascertain the exact facts in the near future. One hundred and forty-six thousand seven hundred and eleven ties have been placed in the track; 191 tons of new steel laid;

7 bridges rebuilt, comprising 2,861 lineal feet, and 4 bridges filled comprising 1,040 lineal feet, and requiring 65,800 cubic yards of earth.

Frogs and switches satisfactorily blocked.

## FLINT & PERE MARQUETTE

The property of this company is in general good condition, considerable improvement having been made in renewal of ties, filling and repairing bridges, etc.

The track improvements include 397,530 ties used in renewal, 192 lineal feet of bridges rebuilt, and 21,520 cubic yards of earth used in filling track openings.

The narrow gauge divisions of this road were found to be much improved, both in condition of track and amount of standard ties put in track, in contemplation of making these divisions standard gauge.

Quite a large number of station buildings were noted that were dilapidated, inadequate for the requirements of public service, and should be renewed. Attention was called to insufficient blocking in frogs and switches, on southern division, and immediate attention was given to this duty.

Interlocking appliances at crossings of this line by railroads, of which there are fifteen, are all in good serviceable condition, except at Clare and Manistee. The former is inadequate, and of poor construction, and the latter, out of use. Both will be properly renewed and maintained at an early date.

The general good reputation of the train equipment and service afforded by this company is maintained.

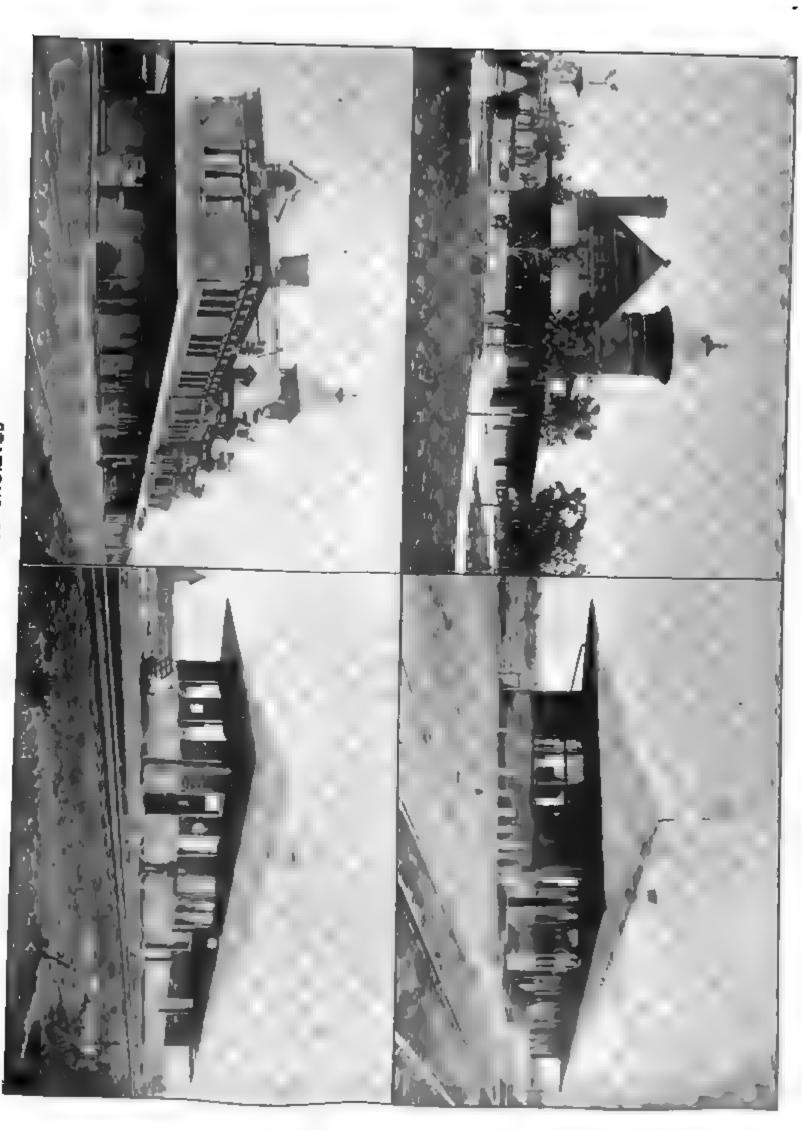
## GRAND RAPIDS & INDIANA.

Inspected November 24 and 26, 1897.

Improvement is noted in the condition of track on this line in Michigan, especially on the southern division. The northern division has not received as much ballast and the surface and alignment of track is not as good, though no dangerous condition exists. The Traverse City, Missaukee and Manistee branches are well maintained and equal to the necessities. The Muskegon division is in exceptionally good condition and the station buildings and structures are satisfactory. Fences have been provided where necessary, and are in good order. One hundred eighty thousand, six hundred fifty-six ties have been used in renewal, and 617 tons of new steel put in the track during the present year.

This company has planned to renew several of their large bridge structures during the coming year, and a contemplated change of the line between Rockford and Mill Creek will dispense with six truss bridges between these two points which require renewal.

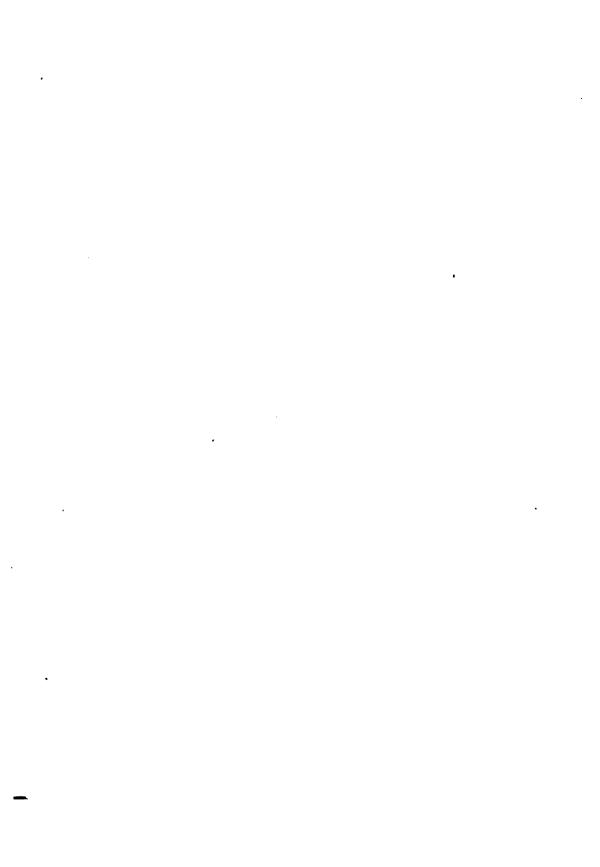
The motive power and equipment compare favorably with any in the State.



SAGINAW, WEST SIDE SAGINAW, EAST SIDE

STATIONS OF F. & P. M. R. R.

MONROE



## LAKE SHORE & MICHIGAN SOUTHERN.

The main line in Michigan, in point of stability, smoothness and alignment, is as near perfection as is possible in modern railroading. The Detroit, Jackson, Lansing and Kalamazoo divisions are well maintained, and in good shape. The Ypsilanti, Fort Wayne and Adrian divisions, on account of the light traffic carried, are not as well maintained, though all are safe and adequate for the service required.

Extensive improvements have been made to the permanent way, track structures and equipment, on the system during the year. This comprises 107,664 ties used in renewal; 711 tons of new steel, 80 lbs. to yard laid in track; bridges rebuilt, 30, with 1,324 lineal feet; bridges and culverts filled, 41, with 1,103 lineal feet, which required 14,946 cubic yards of material. The character of these improvements was generally permanent, bridge renewals being nearly all of stone and iron.

The motive power and train equipment rank with the best in the State, all modern safety appliances being provided; all frog and rail angles filled with blocks as required by law.

# LAKE SUPERIOR & ISHPEMING.

This road, which is practically new, comprises twenty miles of main line and is used exclusively for the transportation of iron ore from the mines to the dock near Marquette. The track structure is in first-class condition. The motive power and train equipment is very heavy and supplied with all modern safety appliances, and the general operation and management of the property is good. No scheduled trains for public traffic are provided.

## DETROIT & LIMA NORTHERN.

This line is completed and in operation in Michigan from State line in Lenawee county to Tecumseh, using about ten miles of the Wabash Railroad tracks between Seneca and Adrian.

The train service is extended to Detroit from Tecumseh over the tracks of the Detroit, Toledo & Milwaukee, and Wabash railroads.

The material used, and construction of bridges and track structures, is good. The condition of track is fair considering the new grade and the difficulty in keeping track in surface and line. The fences, cattle guards and crossing signs are as yet unfinished, and have been the source of considerable complaint from farmers along the line. These complaints have had due attention, and the company will be required to comply with the law or pay the usual penalties for its violations.

### LOWELL & HASTINGS.

This road was inspected on August 25, and the track was found in generally good condition. Repairs to two bridges was suggested, which the company promised to make at once. Motive power and train equipment equal to the necessities.

## MANISTEE & GRAND BAPIDS.

This road is exclusively engaged in the transportation of logs and forest products. It consists of 40 miles of main line extending from Manistee to Luther, Lake county. The track structure and rolling stock are in good condition. There is but little fence on the road although it is provided when applied for.

## MANISTEE & NORTHEASTERN.

This road was inspected on August 19 and 20, and the condition of the track, bridges and equipment was found to be satisfactory. The station building and interlocking machines were found in good order with the exception of the interlocker at the crossing of the F. & P. M. R. R. at Manistee, which is out of use by stipulation pending proposed changes in the crossing and depot grounds. Interlocking devices at Manistee crossing and Interlochen were renewed and approved for use on December 8. The right of way fences were found to be insufficient in many places.

# MANISTIQUE BAILWAY.

Inspected September 30.

Track and bridges in a reasonably safe condition. Motive power and train equipment satisfactory. No frogs or switches were blocked as required by law, but it was promised that this duty should have immediate attention, which has been fulfilled.

### MASON & OCEANA BAILROAD.

This is a small road, 27 miles in length, with a very limited traffic and equipment.

The rail in track is 30 pounds to the yard and is badly bent. A large number of ties were put in track during the present year, and while the road would be generally considered unsafe, the light equipment, slow speed, and generally careful operation of the road reduces the danger to a minimum.

## MICHIGAN CENTRAL SYSTEM.

The main line of this system in Michigan, from Detroit to New Buffalo, is as nearly without fault as it is possible to conceive. The stability and permanence of the line, strength and extra factors of safety in bridge and track structures, the fine architectural designs of station buildings, which are furnished with all reasonable facilities for comfort of patrons, and the excellent train equipment and service, certainly deserve commendation.

There has been installed on the double track on main line, improved block signal systems, which preclude the possibility of real collisions.



M. C. R. R., DEARBORN

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The installation and maintenance of these appliances, though expensive, is considered a good investment by the company. A detailed description

of this system will be found elsewhere in this report.

The Grand River Valley; Air Line; Toledo, and Bay City divisions, are in very good condition, and equal to all traffic necessities. The Air Line division, over which the heavy through traffic is carried, has been nearly all relaid with heavy steel. The Mackinaw division, though steel on south end is considerably worn, is in safe and serviceable condition. The Saginaw division, though safe, is in need of ballast nearly the entire length. The South Haven, Battle Creek, North Midland, Twin Lakes, and Gladwin branches, are not in as good condition as main divisions, but are safe and adequate for the service required.

The interlocking and block signaling systems are well maintained and very efficient. Requirements in blocking frogs and switches have

received proper attention.

# MILWAUKEE, BENTON HARBOR & COLUMBUS BAILWAY.

This road comprises the St. Joseph Valley Railway Company's property, the operation of which was discontinued by order of this department August 11, 1893, together with 17 miles of new line from Benton Harbor to Berrien Springs.

The old line has been thoroughly and permanently rebuilt with firstclass material, all bridges filled or renewed, and with similar construction on the new portion of the line, it is very satisfactory to this department.

The equipment is first-class, and all appliances required by law are provided.

An order was issued July 12, 1897, removing all former restrictions, by this department, and approving the road for public use.

## MINNEAPOLIS, ST. PAUL & SAULT STE, MARIE.

Inspected September 24, 1897.

This line was found to be in a safe and efficient condition. Forty-four bridges or culverts have been filled during the present year, requiring 20.240 cubic yards of earth: 90.202 ties were used in renewal.

The ties, surface, and alignment of track on portion of line east of Gladstone are not as good as western district, but are not in an unsafe condition for the traffic carried.

It is contemplated to put this part of the line in first-class shape during the coming year. The motive power and equipment on this line are excellent and adequate service is afforded. Fences are maintained where necessary, and frogs and switches are blocked as required by law.

### MUNISING RAILWAY.

This road, now extended from Munising to Little Lake, on the Chicago. & Northwestern Railway, 38 miles, has lately been opened through to the western terminal for public traffic.

The construction of the line, condition of rolling stock and trafficoperation is satisfactory to this department.

# PONTIAC, OXFORD & NORTHERN.

Two inspections of the entire property of this company have been made by this department during the year.

The first inspection was ordered on account of a number of specific

complaints, that the road was unsafe for public traffic.

The report of this inspection, made early in June, which was very thorough, developed the fact that the condition of the track and bridges was as stated in complaints, and required immediate attention by this department.

The chief faults specified were rotten ties, insufficient ballast, and

decayed timber in bridges and track openings.

The matter was taken up with the president and general superintendent of the company, with a view to mutually agree to put the road in safe condition.

On August 25, a letter was received from Hugh Porter, president of the company, outlining work to be done, and material to be used in putting the road in safe condition, and to be finished on October 31.

Among other specifications, all decayed ties were to be removed and replaced with new ties; the road bed to be ballasted where needed, and track lifted and lined the entire length of the road; all decayed or partly decayed timbers or materials in bridges, culverts or cattle guards, to be replaced with new material.

This showing was satisfactory, and further action was deferred until early in November, when a second inspection was made, by two competent experts, for this department, and a report of this inspection showed that the stipulations made by President Porter had not been carried out.

That at least 30 per cent of the ties remaining in the track were in a decayed condition; that ballast had been distributed over about 30 per cent of the line, and about 50 per cent of the entire line had been lifted and lined, about three miles of gravel not having been put under the track, this portion requiring renewal of ties before track could be lifted.

It was submitted that the number of ties in the track, about 2,300 to the mile, was too few, with steel 56 pounds to the yard, for successful and safe operation, considering the heavier and increased traffic carried, and that there should be at least 2,700 ties to the mile.

On this basis, there should be at least 100,000 ties placed in the track during the coming year, and for safe operation during this winter, at least 5,000 should be placed in the track at once, at the weakest places, and where ballast was distributed.

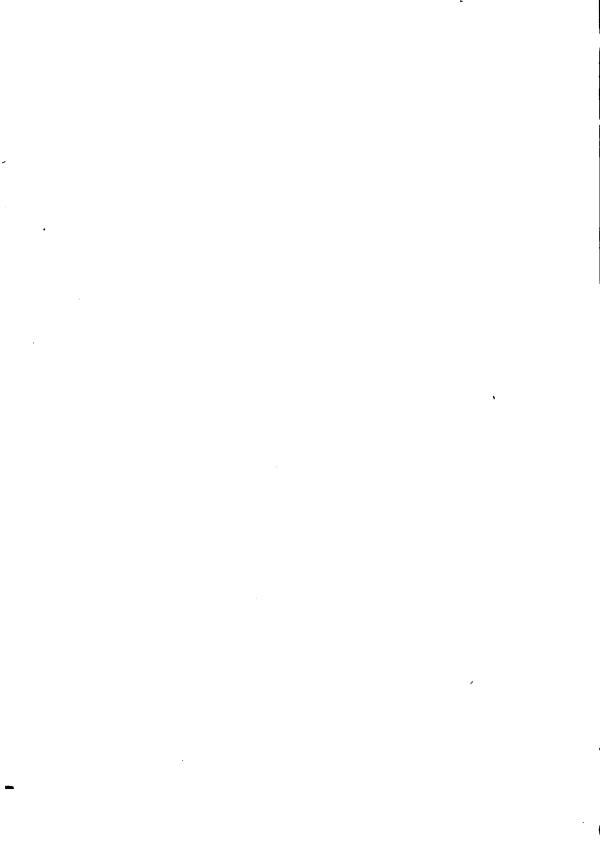
Decayed timber or piles were found in eight bridges or track openings, and it was recommended that trains should be restricted to six miles per hour over these structures until properly repaired.

It was also submitted that switch lights should be placed on main track switch stands.

Upon receipt of this report, an order was issued, November 19, requiring the company to make the repairs recommended, within thirty days, also ordering restricted speed of trains over defective structures until



M. C. R. R., WAYNE



repairs were completed and that switch lights should be provided within the same time.

Assurance was given that this order would be complied with and the work is now in progress.

The station buildings, motive power and train equipment have been placed in a good condition.

The following return was received from the company:

PONTIAC, MICH., Dec. 20, 1897.

Hon. Sybrant Wesselius, Commissioner of Railroads, Lansing, Mich.:

Dear Sir—In the matter of the order issued to Pontiac, Oxford & Northern R. R. Co., dated Nov. 20, 1897, I beg to submit the following return:

New ties have been placed in the track at points where needed, to wit: in Oxford yard, in the cut north of Oxford, thence to the summit of Dryden Hill, and all places where ballast is distributed and not put under track, with the exception of about one-half mile on sections 15 and 16, where ties are in good shape, but track has not been lifted owing to the setting in of bad weather before it was reached. This piece of track is in perfectly safe condition for the winter, but it will be lifted as soon as weather permits. In all, 2,676 new ties have been put in track since November 10.

Two auxiliary stringers have been placed in Cole Lake bridge, all decayed material renewed in Paint Creek bridge, and cattle passes Nos. 28, 31, 33 and 46, and culverts at Miller's Crossing, and Nos. 95, 121 and 209, and Caseville bridge. Also other openings not specified in the order.

Lamps have been placed on switch stands in Pontiac and Oxford yards, and lamps ordered from manufacturers for all other main line switch stands, which are promised not later than the 27th inst. All main line switches will be equipped with lamps before 31st inst. An effort was made to have the lamps on stands within the time limit of the order, but manufacturers could not supply them.

Under these circumstances, I trust it will not be necessary to reduce the speed of trains as indicated in the order.

Yours truly,

W. C. SANFORD, General Superintendent.

### SAGINAW, TUSCOLA & HURON.

This road was found in good condition. The bridge structures are nearly all of stone and iron, and the surface and alignment of track is very good. About five miles of heavy steel has been used in replacing the light steel on east end of line. It was noted that the noxious weeds had not been cut in many places and had gone to seed.

Whistling posts for highway crossings are being put in position.

### SOUTH HAVEN & EASTERN.

This road shows improvement in general conditions.

Arrangements have been perfected to make standard gauge of track, over six miles of heavier steel having been laid during the year, and it is expected that the entire line will be made and operated standard gauge in the early spring.

The steep grades have been considerably reduced.

Motive power and equipment have been improved and service is satisfactory.

### VANDALIA LINE.

The portion of this line in Michigan extends from St. Joseph to Galien, about 24 miles.

The condition of the road and service is satisfactory, no complaints having been received, except pertaining to fences, which were speedily adjusted, to the satisfaction of those concerned.

#### WABASH.

The line of this company in Michigan, extending from Detroit to North Morenci, 73 miles, was found in good condition. Oak ties are used and the track maintenance is excellent. Criticisms were made on condition of crossing frogs at Delray crossing of M. C. R. R., which are being renewed, and the bridge across Raisin river, near Adrian, which it is arranged to renew at once, the material being on the ground.

Equipment and service is excellent, and frogs and switches are blocked as required by law.

## WISCONSIN & MICHIGAN.

The line of this company in Michigan extends from Fisher to Faithorn Junction, 24 miles.

The permanent way on this road is fair, although deficient in ballast, is well tied, and considering the slow time schedule for trains, is not unsafe.

Equipment is in good condition, and well provided with safety appliances required by law.

It may be added that an important factor in the revenues of this road is a car ferry line from Peshtigo, Wisconsin, to Chicago and other lake ports.

# COMPLAINTS AND PETITIONS.

January 19, 1897, petition was received from W. J. Reed, highway commissioner of Carp Lake township, Emmet county, requesting a highway crossing over the Grand Rapids & Indiana Railroad at Levering. After the necessary right of way had been secured, an inspection of the proposed crossing was made by the department. An order, with plans and specifications attached, was issued March 3, 1897.

January 26, complaint was received from D. S. Barrett of Clyde, Oakland county, alleging that the view of trains approaching the Flint & Pere Marquette railroad crossing at Clyde was so obstructed as to render the crossing dangerous, and requesting proper protection. After an inspection had been made by the department and a hearing afforded all parties interested, it was agreed that the crossing should be moved twenty feet north, and an order was issued for an electric alarm bell atsaid crossing.

January 30, resolutions of the common council of the city of Grand' Rapids were received, charging that the Grand Rapids & Indiana, and Detroit, Grand Rapids & Western railroad crossing, on Sixth street, in said city, was not properly protected, and requesting a watchman and gates. After an inspection by the department and a hearing had been afforded to all parties interested, an order was issued, February 3, compelling said railroad companies to erect gates and station a watchman at said crossing.

February 1, petition from Joseph Wendel of Jackson county was received, requesting a farm crossing over the Lake Shore & Michigan Southern Railway between Woodstock and Brooklyn. After an inspection of the proposed crossing by the department, the railway company was notified of the petition and requested to put in said crossing. On February 12, company reported that the request had been complied with.

February 4, petition of W. Dyskerhuis, highway commissioner of Muskegon township, Muskegon county, was received, requesting a crossing over the Chicago & West Michigan Railway at the intersection of the so-called Laketon road. This mater was investigated by the department and it was found that the road in question ceased to be a highway in 1873, and that the crossing could not therefore be ordered put in at the expense of the railroad company. Application denied.

February 10, petition of John Jones of the village of Galien, Berrien county, was received, requesting a farm crossing over the tracks of the

Indiana & Lake Michigan Railroad Company. After an inspection by the department, it was determined that the crossing was unnecessary,

and the prayer of the petitioner was denied on February 10.

February 10, complaint was received from the common council of the city of Benton Harbor, charging that the protection at the intersection of the Cleveland, Cincinnati, Chicago & St. Louis Railway and the St. Joseph Valley Railway, on Territorial street in said city, was inadequate, and requesting that proper protection be ordered. After an inspection by the department and a hearing afforded to all parties interested, the above named railroad companies were ordered, February 25, to station a watchman at said crossing.

February 11, resolutions of the common council of the city of Detroit were received, alleging that the Michigan Central, Grand Trunk, and Lake Shore & Michigan Southern railroad crossing at Beaubien street, in said city, was not protected, and requesting that gates be ordered for the same. This matter was inspected by the department and a hearing of all parties interested was had, and, on April 8, the railroad companies above named were ordered to provide an electric bell for said crossing.

February 16, complaint was received from the village of Fremont, Newaygo county, alleging that the protection at the Chicago & West Michigan Railway crossing in that village was inadequate. After an inspection by the department, the company was ordered to flag all trains

over said crossing, on and after May 25.

February 18, complaint was received from the common council of the village of Chelsea, charging that the crossing of the Michigan Central railroad, on Main street, in said village, was not properly protected, and requesting a flagman at said point. After an inspection had been made of the premises, the railroad company was ordered, on May 19, to station a flagman at said crossing.

February 24, complaint was received from M. M. Bennett, highway commissioner of Seneca township, Lenawee county, alleging that the crossings over the Detroit & Lima Northern Railway, in said township, were in bad condition and impassable for teams. On the same date the company was notified of said complaint and requested to make the neces-

sary repairs at once. No further complaint received.

March 1, complaint was received from the township of Springwells, Wayne county, alleging that the crossings of the Michigan Central, Lake Shore & Michigan Southern, Wabash, and Detroit, Grand Rapids & Western railroad companies, on the Dearborn road, Waterman avenue, Langlois avenue, and the Exposition track, were not properly protected. Careful inspection was made of these crossings by the department, and the railroads above named were ordered to station flagmen at the Dearborn road, Waterman and Langlois avenues, and to stop all trains before crossing the so-called Exposition tracks, and that the trainmen flag said trains over said crossing.

March 2, complaint of James J. Munson of Fairfield township, Shiawassee county, was received, alleging that the fence between his property and the Ann Arbor Railroad right of way was not properly constructed. The company was notified of the complaint and they agreed to rebuild the same. On July 12, the work was inspected by this department and

found to be in compliance with the statute.

March 2, complaint was received from the township board of Wyoming, Kent county, stating that the crossing of the Grand Rapids & Indiana and Michigan Central railroads, on Burton avenue, was in a dangerous condition, and requesting a flagman at the same. This crossing was inspected by the department, and no further protection was deemed necessary.

March 3, complaint was received from the common council of the city of Hudson, charging that the Lake Shore & Michigan Southern Railway crossings on Church, Market and Lane streets, in said city, were in an unsafe condition, and requesting additional protection. An inspection of these crossings was made by the department on March 16, and said railway company was ordered to maintain electric alarm bells at Market and Lane streets, to be operated by a watchman at Church street.

March 7, complaint was received from the village of Dearborn, Wayne county, alleging that the Michigan Central Railroad crossing on Mason street, in said village, was not properly protected. An inspection of the premises was made by the department and a hearing afforded to all parties interested, after which said railroad company was ordered to station

a flagman at said crossing.

March 11, petition was received from the residents of Marcellus, Cass county, requesting additional protection at all Grand Trunk Railway crossings in said village. An inspection was made of the several crossings by the department and a hearing afforded to all parties interested, and on March 16 the railway company was ordered to place electric alarm bells at three crossings in said village.

March 15, complaint was received from Frank Sharp of Howell, charging that the crossing of the Detroit, Grand Rapids & Western Railroad, between Howell and Howell Junction, was frequently blocked by trains standing on the same, and that the planking in said crossing was in an imperfect condition. On March 24, the railroad company was informed of the complaint, and in reply denied the charges therein made, after which the matter was investigated by the department and the planking at said crossing was found to be in first-class condition.

March 19, complaint was received from Jesse Thompson of Bear Lake township, Manistee county, stating that the Manistee & Northeastern Railroad Company's fence, adjacent to his property in the village of Chief, was not properly constructed. On March 31, the railroad company was informed of the complaint and requested to repair said fence.

No further complaint was received.

March 23, petition was received from L. K. Stein, highway commissioner of Bloomfield township, Saginaw county, requesting a new crossing in said township over the Michigan Central Railroad. After the required right of way had been secured and an inspection had been made by the department of the proposed crossing, an order, with plans and specifications attached, was issued.

March 29, complaint was received from Alfred Garlock of Howell township, Livingston county, alleging that the grade of the tracks of the Ann Arbor Railroad had been raised and rendered the farm crossing of the complainant impassable. This matter was called to the attention of the railroad company on March 30, with a request that the same be repaired at once, which said request was complied with.

March 30, complaint was received from William Hanrahan of Bath, Clinton county, stating that the fence between the Michigan Central right of way and his property was insufficient. On April 1, the company was notified of the complaint, and on April 22 word was received from Mr. Hanrahan that said fence had been repaired.

April 1, complaint was received from John Mitchell of Carland, Shiawassee county, alleging that the Ann Arbor Railroad Company's fences adjacent to his property had never been completed. On April 9, the company was ordered to complete said fences. The order complied with.

April 7, complaint was received from John Mitchell of Rush township, Shiawassee county, charging that the Ann Arbor Railroad Company's fence was insufficient to afford protection for cattle. The company's attention was called to the complaint and they agreed to repair the fence at once. At a later date the work was inspected by the department and found to be in compliance with the statute.

April 7, complaint was received from L. A. Beadle of Augusta, alleging that since the alteration had been made in the grade of the Cincinnati, Jackson & Mackinaw Railway, it was impossible for him to reach a portion of his farm located on the opposite side of the track; he also stated that for a certain consideration he would waive his claim for a crossing. On April 9, this complaint was referred to the railroad company, and on April 26 a meeting was arranged between them, and as no further complaint was received the case was closed.

April 11, complaint was received from the city of Saginaw alleging that the blocking of the rails and frogs of the Michigan Central Railroad, at the Genesee avenue crossing, was defective and dangerous. After an inspection had been made of the crossing in question, the railroad company was ordered to place new frogs at said crossing.

April 12, Petition was received from William E. Short of Swartz Creek, alleging that the Chicago & Grand Trunk Railway crossing, on Main street in said village, was not properly protected. An inspection of the crossing was made by the department and additional protection found to be unnecessary.

April 16, petition was received from residents of the village of Mackinaw, requesting that a flagman be ordered stationed at the Michigan Central and Grand Rapids & Indiana railroad crossing, on Huron street, in said village. An inspection of this crossing was made by the department and a hearing afforded to interested parties, and the railroad companies were ordered as follows:

That no cars or engines be allowed to stand or remain within 20 feet of the street limits; that the speed of engines and trains be not to exceed 6 miles per hour while passing crossing, and that passenger trains be made up at some other place than upon or over this crossing, and that the planking of the entire crossing be raised one-half inch above the surface of the rails in the tracks, as required by law.

April 20, petition was received from Michael Speck, highway commissioner of Beaugrand township, Cheboygan county, requesting a highway crossing over the Michigan Central Railroad, in said township. After the necessary right of way had been secured and inspection had been made of the proposed crossing, an order, with plans and specifications, was issued June 28.

April 21, complaint was received from the residents of the village of Wayne, alleging that the Michigan Central Railroad crossing, on Sophia street, in said village, was not properly protected. This matter was investigated by the department and a hearing of all parties in interest had. The railroad company was ordered to station a flagman at said crossing.

April 22, complaint was received from E. Pruin of Spring Lake, Ottawa county, alleging that the crossing at the village limits in Spring Lake, which had been in use more than 30 years, was obstructed by the Detroit, Grand Haven & Milwaukee Railway, and requesting that steps be taken to have said obstruction removed. After an inspection had been made of the crossing, the D., G. H. & M. R'y Co. was notified of the complaint and requested that the prayer of the petitioner be granted. On July 15, word was received from said railway company stating that said crossing was a private crossing and declaring that it was the policy of the road to have all highway crossings legally opened. On July 20, the communication was referred to Mr. Pruin, and satisfactory arrangement was made between the parties.

April 22, resolutions of the common council of the city of Detroit were received alleging that the Michigan Central, Grand Trunk, and Lake Shore & Michigan Southern crossings, on 14th avenue, were improperly protected, and requesting that said crossings be provided with gates. Personal inspection of the crossings was made by the department, and it was agreed that gates would not improve the protection at this point.

April 24, resolutions were received from the village of Belding charging that the Detroit, Grand Rapids & Western Railroad crossing, on Bridge street, in said village, was not properly protected. An inspection was made of the premises and a hearing afforded to all parties interested. The above named railroad company was ordered to station a flagman at said crossing when in use.

April 30, complaint was received from the common council of Pontiac, alleging that the Detroit, Grand Haven & Milwaukee Railway crossings, on Wesson street and Orchard Lake avenue, in said city, were not properly protected. An inspection was made by the department, and on June 12 said company was ordered to place an electric alarm bell at the Wesson street crossing, and petition denied as to Orchard Lake avenue crossing.

May 6 complaint was received from the village of Deerfield, alleging that the planking in the main crossing of the Lake Shore & Michigan Southern Railway in said village was not wide enough to accommodate traffic on said crossing. Said company was requested to widen said crossing, which request was complied with.

May 11 complaint of Mrs. J. H. Thompson of Evangeline township, Charlevoix county, was received, stating that the fence had not been constructed between the Beyne City & Southeastern Railway Company's right of way and her property. The company was notified of said complaint and, after a limited correspondence, word was received that said fence had been ordered erected.

May 11 complaint was received from D. W. Gould of Bimo, Lenawee county, alleging that the fences of the Detroit & Lima Northern Railway Company adjacent to his property had not been constructed. On

May 15 the matter was investigated by the department, and on May 19 a formal order was issued against said railway company to construct said fence within fifteen days.

May 22 petition was received from Harmon Gregory of Hartford township, Van Buren county, alleging that the South Haven & Eastern Railroad Company's fence adjacent to his property was in need of repairs. After an inspection of the premises named in the petition the fence was ordered constructed.

May 22 petition was received from the village of Zeeland, Ottawa county, requesting additional protection at the Chicago & West Michigan Railway crossing in said village. This matter was investigated by the department, and on June 3 an order was made compelling said railway company to widen the planking of said crossing and to station a flagman at the same, which said order was complied with.

May 28 complaint was received from C. W. Cromwell of the village of McBain alleging that the crossing of the Ann Arbor Railroad on Euclid avenue had been closed by said railroad company to the great inconvenience of the public. An investigation was made of the premises, and it was found that they had not acquired the right of way and pending a settlement between the village and said railroad company, a flagman was ordered stationed at the only remaining crossing in said village.

June 1 complaint was received from William Hogg of Nessan City, Benzie county, alleging that the connecting fence at the road crossing of the Manistee & Northeastern Railroad, a short distance from said village, was improperly constructed. On June 3 said company was notified of said complaint, and on June 16 reply was received from them stating that said fence had been approved by this department in 1896 on receipt of a similar complaint.

June 3 petition was received from Fred G. Walters, highway commissioner of Beaverton township, Gladwin county, requesting two highway crossings over the tracks of the Flint & Pere Marquette Railroad Company in said township. After the necessary right of way had been secured, orders with plans and specifications were issued for said crossings on June 10 and June 25, respectively. On June 30 word was received from said petitioner that the work on said crossings was in process of construction.

June 12 complaint was received from the residents of the village of Lawton, alleging that the planking at the Main street crossing of the Michigan Central Railroad in said village was too narrow to accommodate traffic at said crossing. On June 12 the railroad company was ordered to widen said crossing to thirty-two feet. The order was complied with.

June 15 complaint was received from W. J. Jennings of Wise township, Isabella county, requesting a highway crossing over the Flint & Pere Marquette Railroad Company's tracks in Wise township. On June 19 petitioner was informed of the necessary steps to be taken for acquiring the right of way. On October 7, having secured the necessary right of way, an order with plans and specifications attached was issued.

June 19 complaint was received from W. H. S. Wood of the village of Cohoctah, Livingston county, charging that the highway crossing of the Ann Arbor Railroad, known as Houtailing crossing, near said village, was dangerous to the traveling public. An investigation was made of this crossing, and a hearing afforded to all interested parties. It was decided that if the whistle was sounded when trains approach said crossing no further protection would be necessary, order to which effect was issued.

June 19 petition of Nathan Lefler of Bentley, Bay county, requesting a crossing over the Michigan Central Railroad in said town was received. On June 20 said petitioner was advised to secure the necessary right of way. On November 12, upon receipt of the evidence showing that the necessary right of way had been secured, an order with plans and specifications was issued for such crossing.

June 19 petition was received from Peter Cody, highway commissioner of Pinconning township, requesting a crossing over the Michigan Central Railroad in said township. On October 2 evidence was sent showing that the necessary right of way had been secured. October 6 an order with plans and specifications attached was issued for

said crossing.

June 25 complaint was received from D. O. Holden, highway commissioner of Bellevue, alleging that the Lime Kiln crossing over the Grand Trunk Railway, one-half mile west of Bellevue, was in a dangerous condition, and the planking but nineteen feet wide. After inspection of the premises the railroad company was ordered on July 9 to widen the roadway to twenty-four feet.

June 25 complaint was received from the residents of Gun Plains township, Allegan county, alleging that the Hunt crossing, so called, over the Grand Rapids & Indiana Railway, was in a dangerous condition, requesting that the railway be ordered to lay tile and fill the ditch at said crossing so that teams could drive directly across said tracks. This petition was referred to the railroad company July 3 and request was promptly granted.

June 25 complaint was received from the residents of the city of Ann Arbor alleging that the planking on the various crossings of the Ann Arbor Railroad in said city were in need of repairs. On July 9 the company was ordered to repair all crossings in said city

where necessary.

June 25 complaint was received from the common council of Reed City charging that the Grand Rapids & Indiana and Flint & Pere Marquette railroad crossings on Slosson avenue and Main street, were improperly protected. An investigation was made of these crossings by the department and a hearing afforded to interested parties. On July 9 said railroad companies were ordered to flag all trains over said crossings.

June 26 complaint was received from the common council of the city of Detroit alleging that the Union Station and Terminal Association crossing on Military avenue in said city was not properly protected, and asking that a watchman be stationed at this point. Careful investigation was made of the necessity for additional protection

at this crossing, and on July 8 a flagman was ordered stationed at

said crossing.

June 26 complaint was received from A. A. Ellis, mayor of Ionia, alleging that the Detroit, Grand Rapids & Western and Detroit, Grand Haven & Milwaukee crossing on Steel street in said city was in need of additional protection. This matter was taken up and an inspection made by the department, and on August 11 the companies were ordered to station a flagman at said crossing.

June 27 petition was received from Mrs. Halladay and Mrs. West, living about three miles west of Battle Creek, requesting a farm crossing over the tracks of the Michigan Central Railroad at this point. An investigation of the premises was made by the department, the

company notified of the petition, and the crossing ordered built.

June 28 petition from Dr. C. M. Glass of the village of Corey, Cass county, was received, requesting a farm crossing over the tracks of the Michigan Central Railroad Company near said village. After an investigation of the premises by the department, a satisfactory arrange-

ment was made with the company for the crossing.

June 28 complaint was received from Charles Butts of Niles, alleging that the Cleveland, Cincinnati, Chicago & St. Louis Railway fence adjacent to his property was in poor condition, and asking that the same be ordered repaired. On July 14 said railroad company was notified of the complaint, and on July 24 reply was received that said fence had been repaired. On August 13 a second complaint was received from Mr. Butts claiming that although the fence had been repaired it was still inadequate for the protection of his stock, after which a personal inspection was made by the department and the style of fence in use at the point in question approved by the commissioner.

July 6 complaint was received from the residents of Hillsdale, Hillsdale county, alleging that the Lake Shore & Michigan Southern Railway crossing on West street, in said city, was not properly protected. After investigation by the department, the railway company was ordered on August 5 to station a flagman at said crossing, which order was

complied with.

July 6 complaint was received from the highway commissioner of the township of Plymouth, Wayne county, stating that the Flint & Pere Marquette Railroad crossing south of Northville station was in need of additional protection, and asking that the same might be ordered. A personal inspection of the crossing in question was made by the department and a hearing afforded to all parties interested, and on July 9 the railroad company was ordered to operate an electric alarm bell at said crossing. The order was complied with.

July 12 complaint was received from Z. Cook, of Adrian, stating that the line fence between his property and the right of way of the Detroit & Lima Northern Railway had not been constructed, and asking that an order be made to compel them to construct the same within a reasonable time. On July 17 complaint was referred to the railroad company, and on July 20 word was received that the fence would be

constructed at once.

July 12 complaint was received from G. B. Garlinghause of Tecumseh, Lenawee county, alleging that the Detroit & Lima Northern Railway fence adjacent to his property had not been constructed. On July 20 the railway company was notified of the complaint, and on July 22 word was received that the same would be built at once.

July 15 complaint was received from Mr. Williams of Seneca township, Lenawee county, stating that the Detroit & Lima Northern Railway Company had neglected to build the fence adjacent to complainant's property. On July 20 the railway company was notified of the complaint. July 22 a telegram was received stating that the fence would be constructed at once.

July 16 petition was received from G. W. Dickinson of Pontiac requesting information as to the necessary steps to be taken to secure a crossing over the Detroit, Grand Haven & Milwaukee Railway at Sanderson avenue in said city. On July 17 the petitioner was informed as to the requirements in such case, and the matter is still unfinished.

July 18 complaint was received from James La Munion of Derby, Berrien county, alleging that the fence between his property and the Indiana & Lake Michigan Railway Company's right of way had not been built. After an inspection had been made of the location in question an order was issued September 2 compelling said railway company to construct said fence.

July 19 complaint was received from E. Dean of Lake Cora stating that the South Haven & Eastern Railroad Company's fence adjacent to complainant's property for a distance of eighty rods had not been constructed. On July 20 said railroad company was notified of said complaint, and on July 31 word was received that said fence had been completed.

July 23 petition was received from the common council of the city of Grand Rapids requesting better protection at the Detroit, Grand Haven & Milwaukee Railway crossing on Lafayette street in said city. Inspection of this crossing was made by the department and a hearing afforded to all parties interested. On August 11 an order was issued directing the railway company to transfer their watchman from Clancy street to Lafayette street and to place an electric alarm bell at the Clancy street crossing, which said order was complied with.

July 28 complaint was received from John E. Fisher of Eau Claire alleging that the Cleveland, Cincinnati, Chicago & St. Louis Railway had not constructed its right of way fence adjacent to complainant's property. On August 4 said railway company was notified of said complaint, and on September 13 word was received that said fence had been completed.

August 10 petition was received from Charles E. Kane, highway commissioner of Martiny township, Mecosta county, for a proposed crossing over the Detroit, Grand Rapids & Western Railway at Chippewa Lake. Old plans for a crossing, issued two years previous, were returned, petitioner requesting new plans for the same. New plans and specifications were issued on August 10. On September 2 communication was received from the railroad company stating that the right of way for said crossing had not been granted, but consenting to construct said crossing provided said township pay the expense thereof. This proposition was submitted to Mr. Kane, and as yet no reply has been received.

August 18 complaint was received from Thomas Mars of Berrien Center, Berrien county, alleging that the Cleveland, Cincinnati, Chicago & St. Louis Railway fences adjacent to his property were in need of repairs. An investigation was made of the location in question, and an order was issued September 2 for the reconstruction and repairing of said fence.

August 19 petition of George W. Sickles of Wolverine, Cheboygan county, asking whether petitioner could be allowed to use one of the private crossings of the Michigan Central Railroad Company adjoining his farm. He was advised that the matter would be investigated by the department. After such investigation it was decided that the

department had no jurisdiction in the premises.

August 26 complaint was received from the common council of the city of Detroit alleging that the Lake Shore & Michigan Southern Railway, Michigan Central and Wabash railroads crossing on Hastings street in said city was not properly protected. After a careful inspection of the premises by this department and a hearing given to all parties interested, on October 12 a flagman was ordered at said cross-Said order has been complied with.

August 26 complaint was received from the board of education at Iron Mountain alleging that the Chicago, Milwaukee & St. Paul Railway crossing at D street was not properly protected. An inspection of the premises was made on September 22, and it was found that the railway company of its own accord had stationed a flagman at this

crossing on September 14.

September 3 complaint was received from D. B. Cunningham of Boyne City, Charlevoix county, alleging that the fence between his property and the Boyne City & Southeastern Railroad Company's right of way had not been erected. Said company was notified of the complaint, and on October 8 word was received from Mr. Cunningham that said fence had been completed.

September 7 complaint was received from Robert S. Savage of Madison township, Lenawee county, stating that the connecting fence, wing fences and cattle guards had not been constructed by the Detroit & Lima Northern Railway Company between his property and its right of way. On September 11 Mr. Savage was requested to make a formal complaint, which was received on October 4. On that date said railway company was requested to erect the same at once. On October 7 reply was received that the same would be constructed immediately.

September 17 petition from the residents of Newberry township, Cass county, requesting that gates or bells be provided at Michigan Central Railroad crossings east of Jones in said township. After an inspection of this crossing by the department and a hearing given to all interested parties, an order was issued October 5 directing said railroad company to operate an electric alarm bell at this point, which

said order was complied with.

September 20 complaint was received from B. Q. Goodrich of Nottawa, Nottawa township, St. Joseph county, charging that the Grand Rapids & Indiana Railway crossing one-half mile north of Nottawa is steep, narrow and in a very dangerous condition. The company was notified of the complaint, and word was received from them December 10 that the crossing had been placed in proper condition.

September 22 complaint was received from W. J. Woolston of Luther stating that the line fence between his property and the right of way of the Grand Rapids & Indiana Railway Company had not been constructed. On September 24 said railway company was informed of said complaint, and on October 6 reply was received that the work on the same would be commenced at once.

September 23 complaint was received from H. D. Van Camp of Hartford township, Van Buren county, alleging that the South Haven & Eastern Railroad Company's fences adjacent to complainant's property had not been erected. On September 24 an order was issued directing said railroad company to construct said fences within fifteen days.

September 24 complaint was received from George S. Stoddard of Rodney, Mecosta county, stating that the Detroit, Grand Rapids & Western Railroad Company had not constructed its fences between his property and the company's right of way. Said company was notified at once of the complaint, and requested to build said fence, which request was complied with.

October 1 complaint was received from John Diebel of Winsor township, Huron county, alleging that the farm crossing at said point over the Saginaw, Tuscola & Huron Railroad had been closed. On October 18 inspection was made and agreement consummated with said railroad company to reopen said crossing at once.

October 7 petition was received from the common council of the city of Detroit praying that a watchman be placed at Summit, Ferdinand and Campbell avenues crossing over the Union Station and Terminal Association's tracks in said city. After a careful investigation had been made and a hearing afforded to all interested parties, it was agreed that a bell should be placed between Summit and Ferdinand avenues, and on October 19 an order to that effect was issued, which said order has been complied with.

October 9 complaint was received from the residents of the village of Ceresco alleging that the depot of the Detroit, Toledo & Milwaukee Railway Company was burned on June 25, and requesting that a new one be constructed. A personal investigation of the premises was made by the department, and the railway company agreed to rebuild the same immediately.

October 25 complaint was received from E. S. Reist of Ashley, Gratiot county, alleging that the natural water course had been obstructed by the Toledo, Saginaw & Muskegon Railroad in Washington township. This matter is still under consideration by the department.

October 29 complaint was received from the common council of Howell stating that the approaches of the bridge over the Ann Arbor Railroad were in dangerous condition. After investigation by the department the company was notified of the complaint, and a reply was received agreeing to make the necessary repairs.

November 1 complaint was received from S. E. Bevier of Clarksville alleging that the Lowell & Hastings Railroad Company was charging five cents per mile for passenger traffic on its road. An investigation of this charge was made by the department, and the complaint was

referred to the railroad company with a request to comply with the law

in this regard.

November 4 petition from Andrew Walling, highway commissioner of Mellen township, Menominee county, requesting a highway crossing over the tracks of the Chicago & North Western Railway in said township. After the necessary right of way had been secured and an investigation made of the premises by the department, on November 16 an order with plans and specifications attached was issued.

November 5 petition was received from the common council of the village of Plymouth requesting additional protection at Main street crossing of the Flint & Pere Marquette Railroad, and also at the first crossing east of the union depot over the Detroit, Grand Rapids & Western Railroad, in said village. After a personal investigation by the department of the crossings in question, a flagman was ordered at the Main street crossing on November 16, and the Detroit, Grand Rapids & Western Railway Company was ordered to reduce the speed of all trains to six miles per hour at the other crossing.

November 8 petition was received from Frank H. Beard of Detroit requesting additional protection at the crossing of the Union Depot Company's tracks on Waterman avenue, in Springwell township. A careful investigation of the premises was made by the department, and the additional protection was deemed unnecessary. Therefore the prayer of the petitioner was denied.

November 19 complaint was received from the city of Adrian in regard to the crossings of the Detroit & Lima Northern, the Wabash, and Lake Shore & Michigan Southern Railways in that city, alleging that the same were in dangerous condition. A personal investigation of the several crossings in that city was made on November 23, and the matter is still unfinished.

November 22 complaint was received from E. S. Reist of Ashley, Gratiot county, alleging that the Ann Arbor Railroad Company had obstructed a drain in Washington township, in said county, and refused to reopen the same. This matter is still under consideration by the department.

# OFFICIAL ORDERS.

ISSUED BY THE COMMISSIONER OF RAILROADS OF THE STATE OF MICHIGAN, FROM NOVEMBER 27, 1896, TO DECEMBER 1, 1897.

#### 1896.

1. Nov. 27. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. M. Whitman, general manager of the Chicago

& North Western Railway Company:

Special order permitting telephone company to string four wires over the tracks of the C. & N. W. Ry. on Maple and Chapin streets, between Fifth and Sixth streets, in the city of Iron Mountain, county of Dickinson, Michigan.

2. Nov. 27. To Henry Gorton & Son, Waterloo, Michigan, and H.

B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting Henry Gorton & Son to string telephone wire over the tracks of the M. C. R. R. one mile west of the village of Chelsea, county of Washtenaw, Michigan.

3. Nov. 30. To the president of the village of Vicksburg, Michigan, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting the village to string electric light wires over

the tracks of the C. & G. T. Ry. in Vicksburg, Michigan.

4. Nov. 30. To the president of the village of Vicksburg, Michigan, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting the village to string electric light wires

over the tracks of the G. R. & I. Ry. in Vicksburg, Michigan.

5. Dec. 4. To F. R. Deckrow, commissioner of highways of Grayling township, Crawford county, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order of plans and specifications for highway crossing in

the township of Grayling, county of Crawford, Michigan.

6. Dec. 4. To the Lansing water works and electric light board, H. B. Ledyard, president of the Michigan Central Railroad Company, and Charles M. Heald, receiver of the Detroit, Lansing & Northern Railroad Company:

Special order permitting the board to string electric light wires over the tracks of the M. C. R. R. and D., L. & N. R. R. on Michigan avenue, Lansing, Michigan.

7. Dec. 7. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. D. Hawks, president of the Detroit & Mackinac

Railway Company:

Special order permitting telephone company to string wires over the

tracks of the D. & M. Ry. at North Bay City, Michigan.

8. Dec. 7. To F. A. Forbes, general manager of the Michigan Telephone Company, H. B. Ledyard, president of the Michigan Central Railroad Company, and Charles M. Heald, receiver of the Detroit, Lansing & Northern Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. and D., L. & N. R. a. on Shiawassee street,

Lansing, Michigan.

9. Dec. 7. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Crapo, general manager Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. at Atlantic street, Bay City, Michigan.

10. Dec. 8. To Michael A. Sommerfield, commissioner of highways of Merritt township, Bay county, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order of plans and specifications for highway crossing in the

township of Merrit, county of Bay, Michigan.

11. Dec. 8. To E. K. Warren, president village of Three Oaks, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting the village to string electric light wires over the tracks of the M. C. R. R. on west side of Elm street, Three

Oaks, Michigan.

12. Dec. 9. To G. R. Hurd, superintendent of the Monroe Electric Light and Power Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting light and power company to string electric light wires over the tracks of the L. S. & M. S. Ry. to the Sterling

Mills in the city of Monroe, Michigan.

13. Dec. 9. To Charles M. Heald, general manager of the Chicago & West Michigan Railway Company, and Henry Starke, president of the Arcadia & Betsey River Railway Company:

Special order approving interlocking plant at the crossing of the

two roads at Henry, Manistee county, Michigan.

14. Dec. 11. To M. E. Liniham, Kalamazoo Fire Department, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting fire department to string fire alarm wires over the tracks of the L. S. & M. S. Ry. on Parson street, Kalamazoo,

Michigan.

15. Dec. 14. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Detroit, Grand Haven & Milwaukee Railway Company:

Special order permitting telephone company to string wires over the tracks of the D., G. H. & M. Ry. at alley between Scott and Pierce streets, Detroit, Michigan.

16. Dec. 14. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central

Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at the intersection of Clay street and St. Aubin

avenue, Detroit, Michigan.

17. Dec. 21. To F. A. Forbes, general manager of the Michigan Telephone Company, A. B. Atwater, superintendent of the Grand Trunk Railway system, western division, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to change poles to north side of Michigan avenue, where wires cross the two railroads, Detroit,

Michigan.

18. Dec. 23. To John Strong & Son, South Rockwood, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting company to string a telephone wire over the

tracks of the L. S. & M. S. Ry. in South Rockwood, Michigan.

19. Dec. 24. To H. B. Ledyard, president of the Michigan Central Railroad Company, D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company, C. M. Hays, general manager Grand Trunk Railway Company, and A. B. du Pont, general manager of the Detroit Citizens' Street Railway Company:

Special order approving derailing and signaling appliance at the cross-

ing of the railroads on Grand River avenue, Detroit, Michigan.

20. Dec. 24. To J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway, and A. B. Atwater, general superintendent of the Toledo, Saginaw & Muskegon Railway Company:

Special order modifying order of approval of interlocking plant at

the crossing of the two railroads at Cedar Springs, Michigan.

21. Dec. 30. To Charles M. Hays, general manager of the Grand Trunk Railway Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order modifying order of approval of interlocking plant at the crossing of the two railroads at Grand Trunk Junction, Michigan.

22. Jan. 2. To Charles M. Heald, receiver of the Detroit, Lansing & Northern Railroad Company, and Charles M. Hays, general manager of the Toledo, Saginaw & Muskegon Railway Company:

Special order modifying order of approval of interlocking plant at

the crossing of the two railroads at Greenville, Michigan.

23. Jan. 4. To H. B. Ledyard, president of the Michigan Central Railroad Company; Charles M. Hays, general manager Cincinnati, Saginaw & Mackinaw Railway Company, and I. Bearinger, president of the Inter Urban Railway Company:

Special order approving derailing and signaling device at the crossing

of the railroads between Carrollton and Zilwaukee, Michigan.

24. Jan. 4. To the Michigan Central Railroad Company and the Fort Street Depot Company:

Decision in the matter of maintenance of viaduct on River street, Detroit, Michigan.

25. Jan. 6. To F. A. Forbes, general manager Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on North Church street, Kalamazoo, Michigan.

26. Jan. 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. on Farmer street, Otsego, Michigan.

27. Jan. 11. To G. R. Hurd, manager of the Monroe Electric Light and Power Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting light and power company to string wires over the tracks of the F. & P. M. R. R. on Front street, Monroe, Michigan.

29. Jan. 20. To John H. Tripp, manager Kibbie Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. at Kibbie, Michigan.

30. Jan. 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. C. Potter, secretary and treasurer of the Chicago, Kalamazoo & Saginaw Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. K. & S. Ry. on East Frank street, Kalamazoo, Michigan.

31. Jan. 21. To H. J. Kinnucan, superintendent of the Postal Telegraph-Cable Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting cable company to string wires over the tracks

of the M. C. R. R. at Decatur, Michigan.

32. Feb. 2. To J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order for erection of safety gates at the crossing of the two

railroads on Sixth street, Grand Rapids, Michigan.

33. Feb. 9. To Thomas Neal, secretary of the Acme White Lead and Color Works, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting Acme works to string electric light wires over the tracks of the M. C. R. R. on St. Aubin avenue, Detroit, Michigan.

34. Feb. 11. To James S. Brailey, manager of the Adrain Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Main, Michigan and Center streets,

and alley between Dennis and State streets, Adrian, Michigan.

35. Feb. 17. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. at Sibley's Crossing, Michigan.

36. Feb. 17. To F. A. Forbes, general manager of the Michigan Telephone Company, and C. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry, at Englishville, Michigan.

37. Feb. 25. To the Cleveland, Cincinnati, Chicago & St. Louis Railway Company, and the St. Joseph Valley Railway Company:

Special order for flagman at Territorial street, Benton Harbor, Michi-

gan.

38. March 9. To W. J. Reed, commissioner of highways, Carp Lake township, Emmet county, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order with plans and specifications for highway crossing in

Carp Lake township over the tracks of the G. R. & I. Ry.

39. March 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and C. M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company:

Special order permitting telephone company to string wires over the tracks of the D., G. R. & W. R. R. at Madison and Burton avenues, Grand Rapids, Michigan.

40. March 9. To Chas. E. Bell, proprietor of the Telephone. Exchange, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. at Main, Oak, Fifth and Sixth streets, Evart, Michigan.

41. March 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. W. Ashley, general manager of the Ann Arbor Railroad Company:

Special order permitting telephone company to string wires over the tracks of the A. A. R. R. at Cadillac, Hobart, Tustin, Leroy, Ashton and Reed City, Michigan.

42. March 9. To F. A. Forbes, general manager of the Michigan Telephone Company; A. B. Atwater, superintendent of the Grand Trunk Railway system, western division, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to set an additional pole for wires on Milwaukee avenue, near Hastings street, Detroit, Michigan.

43. March 16. To A. Bonning, Monroe, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting A. Bonning to string a private wire line over the tracks of the L. S. & M. S. Ry. in alley between Monroe and Washington streets, Monroe, Michigan.

44. March 16. To G. R. Hurd, manager of the Monroe Electric Light and Power Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting light and power company to string wires over the tracks of the L. S. & M. S. Ry. opposite depot in Monroe, Michigan. 45. March 16. To G. L. Gordon, Hudson, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting G. L. Gordon to string wires (private) over

the L. S. & M. S. Ry. at Wood street, Hudson, Michigan.

46. March 24. To J. Williams, Jr., secretary of the Adrian Telephone Company, and E. A. Gould, superintendent of the eastern division of the Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash R. R. at East Maumee street and Treat road, in

and near Adrian, Michigan.

47. March 30. To G. R. Hurd, manager Monroe Electric Light & Power Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting light and power company to string wires over the tracks of the L. S. & M. S. Ry. to electric light works, Monroe,

Michigan.

48. April 7. To J. B. Ware, manager of the Citizens' Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. south of the city limits, Grand Rapids,

Michigan.

49. April 3. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Blizard, superintendent of the Michigan division of the Cleveland, Cincinnati, Chicago & St. Louis Railway Company:

Special order modifying order for stringing wires at intersection of

Broadway with the C., C., C. & St. L. Ry., Niles, Michigan.

50. April 3. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. in the Cleveland Cedar Company's yard, at

Delray, Michigan.

51. April 7. To the Union Terminal Association, Detroit, Michigan: Special order for the stationing and maintaining of a flagman at Military avenue, Detroit, Michigan.

52. April 7. To the Michigan Central Railroad Company:

Special order for the stationing and maintaining of a flagman at Langlois road in the township of Springwells, Michigan.

53. April 7. To the Michigan Central Railroad, Lake Shore & Michigan Southern Railway, and Wabash Railroad Companies:

Special order for the stationing and maintaining of a flagman at

Waterman avenue in the township of Springwells, Michigan.

54. April 7. To the Michigan Central Railroad, Lake Shore & Michigan Southern Railway, Grand Trunk Railway, and Wabash Railroad companies:

Special order for the erection, operation and maintenance of an electric alarm bell at Beaubien street, Detroit, Michigan.

55. April 7. To the Michigan Central Railroad, Lake Shore & Michigan Southern Railway, Wabash Railroad, Flint & Pere Marquette Railroad, and Detroit, Grand Rapids & Western Railroad companies:

Special order for the stationing and maintaining of a flagman at Dear-

born road, in the township of Springwells, Michigan.

56. April 20. To F. A. Forbes, general manager of the Michigan Telephone Company, and E. A. Gould, superintendent of the eastern division of the Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash Railroad on Treat road, near city limits, Adrian,

Michigan.

57. April 20. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. R. & I. Ry. at and near Howard City, Morley and Stan-

wood, Michigan.

58. April 20. To D. C. Oakes, manager of the Mutual Telephone Company, and A. B. Atwater, superintendent of the Detroit, Grand Haven & Milwaukee Railway Company:

Special order permitting telephone company to string wires over the tracks of the D., G. H. & M. Ry. near depot at Coopersville, Michigan.

59. April 27. To B. F. McReynold, secretary of the board of police and fire commissioners; Chas. M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company; J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting police and fire commissioners to string wires over the tracks of the D., G. R. & W. Ry., G. R. & I. Ry. and M. C. R. R.

at Second avenue, Grand Rapids, Michigan.

60. May 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Detroit, Grand Haven & Milwaukee Railway Company:

Special order permitting telephone company to string wires over the tracks of the D., G. H. & M. Ry. near railway depot at Nunica, Michigan.

61. May 17. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the

M. C. R. R. bridge at Saginaw W. S., Michigan.

62. May 19. To F. A. Forbes, general manager of the Michigan Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Lewis street, Jackson, Michigan.

63. May 19. To Henry Gorton & Son, Waterloo, Michigan, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. (Michigan Air Line) at Stockbridge, Michigan.

64. May 19. To Lima Northern Railway Company:

Special order requiring railway company to build right of way fences in Seneca township, Lenawee county, Michigan.

65. May 19. To Michigan Central Railroad Company:

Special order requiring railroad company to station a flagman at Main street crossing of the railroad in Chelsea, Michigan

66. May 19. To Michigan Central Railroad Company:

Special order requiring railroad company to erect an electric alarm bell at Sophia street crossing of the railroad in Wayne, Wayne county, Michigan.

67. May 19. To Michigan Central Railroad Company:

Special order requiring railroad company to station a flagman at Mason street crossing of the railroad in Dearborn, Wayne county, Michigan.

68. May 19. To Owosso & Corunna Traction Company, and Ann

Arbor Railroad Company:

Special order modifying order of June 20, 1896, relative to derailing switches at the Corunna road crossing of the two railroads in Owosso, Michigan.

69. May 10. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company.

Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on Elm. street, Kalamazoo, and at South End Lumber & Salt Company's yard, Bay City, Michigan.

70. May 19. To Owosso & Corunna Traction Company and Ann

Arbor Railroad Company:

Special order approving signaling device at the crossing of the two railroads on Corunna road, Owosso, Michigan.

71. May 20. Saginaw Union Street Railway Company and Michigan

Central Railroad Company:

Special order for new crossing frogs at the Genesee avenue crossing of the two railroads, Saginaw, Michigan.

72. May 25. To Chicago & West Michigan Railway Company:

Special order requiring railway company to station a flagman at the Main street crossing of the railroad in Fremont, Michigan.

73. June 1. To M. W. Lott, secretary of the Three Rivers Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in Three Rivers, Michigan.

74. June 1. To M. W. Lott, secretary of the Three Rivers Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on Flint avenue, Three Rivers Michigan.

75. June 1. To D. Eldred, general manager of the Eldred Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at Pavilion and near Scott's station, Michigan.

76. June 1. To D. Eldred, general manager of the Eldred Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the

tracks of the G. R. & I. Ry. at Vicksburg, Michigan.

77. June 3. To Thomas Carmody, secretary of the Watervliet & Paw Paw Lake Telephone Company, and J. K. V. Agnew, general superintendent of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of C. & W. M. Ry. in Watervliet, Michigan.

78. June 3. To M. W. Lott, secretary of the Three Rivers Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Broadway, Three Rivers, Michigan.

79. June 3. To Detroit Telephone Company and Lake Shore & Michigan Southern Railway Company.

Special order permitting telephone company to string wires over the tracks of L. S. & M. S. Ry. at various places in Detroit, Michigan.

80. Detroit Telephone Company and Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at various places in Detroit, Michigan.

81. June 3. To Detroit Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at various places in Detroit, Michigan.

82. June 3. To Detroit Telephone Company and Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash Railroad at various places in Detroit, Michigan.

83. June 3. To Chicago & West Michigan Railway Company:

Special order revoking order of September 25, 1891, relative to flagman at Thirteenth street, Holland, Michigan.

84. June 3. To Chicago & West Michigan Railway Company:

Special order for C. & W. M. Ry. to station flagman at the crossing of its tracks with West street, Zeeland, Michigan.

85. June 5. To F. A. Forbes, general manager of the Michigan Telephone Company, and Chas. M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company:

Special order permitting telephone company to string wires over the tracks of D., G. R. & W. R. R. at State street, Alma, Michigan.

86. June 5. To Flint & Pere Marquette Railroad Company:

Special order for the erection of an alarm bell at crossing just north of Clyde station, Michigan.

87. June 8. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. W. Ashley, general manager of the Ann Arbor Railroad Company:

Special order permitting telephone company to string wires over the tracks of  $\Lambda$ .  $\Lambda$ . R. R. at State street,  $\Lambda$ lma, Michigan.

88. June 8. To C. H. Roser, general manager of the Detroit & Lima Northern Railway Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting D. & L. N. Ry. to string telegraph wires over the tracks of the L. S. & M. S. Ry. at State street, Adrian, Michigan.

89. June 11. To Detroit Telephone Company and Lake Shore & Michigan Southern Railway Company?

Special order permitting telephone company to string wires over the

tracks of L. S. & M. S. Ry. at various places in Detroit, Michigan.
90. June 12. To Oakland Railway Company and Grand Trunk Rail-

way system:
Special order with specifications for construction of crossing at the

intersection of the railways at Saginaw street, Pontiac, Michigan.

91. June 12. To Detroit, Grand Haven & Milwaukee Railway Company:

pun, .

Special order for the erection and maintenance of an electric alarm

bell at Wesson street crossing, Pontiac, Michigan.

92. June 12. To Fred Waters, commissioner of highways, Beaverton township, Gladwin county, Michigan, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing in the

township of Beaverton, county of Gladwin, Michigan.

93. June 15. To Twin City Telephone Company and Cleveland, Cin-

cinnati, Chicago & St. Louis Railway Company:

Special order permitting telephone company to string wires over the tracks of the C., C., C. & St. L. Ry. at various places, Benton Harbor, Michigan.

94. June 22. To Inter Urban Railway Company and Michigan Cen-

tral Railroad Company:

Special order approving derailing and signaling device at the crossing of the two roads, north of the village of Zilwaukee, county of Saginaw, Michigan.

95. June 23. To C. W. Swaverly, manager of the Swaverly Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Beilman Company.

West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of C. & W. M. Rv. at Barker's Creek, Michigan.

96. June 25. To Fred G. Waters, commissioner of highways, Beaverton township, Gladwin county, Michigan, and S. T. Crapo, general manager Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing in the

township of Beaverton, county of Gladwin, Michigan.

97. June 26. To Twin City Telephone Company and Vandalia Line: Special order permitting telephone company to string wires over the tracks of the Vandalia Line at Wayne street, St. Joseph, Michigan.

98. June 28. To Michael Speck, commissioner of highways, Beau-

grand township, Cheboygan county, Michigan:

Special order with plans and specifications for highway crossing in

township of Beaugrand, Cheboygan county, Mich.

99. June 28. To F. A. Forbes, general manager of the Michigan Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at State road, north of Traverse City, Michigan.

June 28. To F. A. Forbes, general manager of the Michigan 100. Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the

tracks of G. R. & I. Ry. at East Vine street, Kalamazoo, Michigan.

July 1. To L. K. Stein, commissioner of highways, township of Blumfield, county of Saginaw, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order with plans and specifications for highway crossings in the

township of Blumfield, county of Saginaw, Michigan.

July 1. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. C. Potter, secretary of the Chicago, Kalamazoo & Saginaw Railway Company:

Special order permitting telephone company to string wires over the tracks of the C., K. & S. Rv. at Walbridge street, Kalamazoo, Michigan.

July 1. To Lansing Water Works & Electric Light Board. Michigan Central Railroad Company and Detroit, Grand Rapids & Western Railroad Company:

Special order permitting board to string wires over the tracks of the M. C. R. and D., G. R. & W. R. R. on Michigan avenue, Lansing, Michigan.

104. July 3: To People's Telephone Company, Carleton, Michigan, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of L. S. & M. S. Ry. at Rockwood, Michigan.

July 3. To Detroit Telephone Company and Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the

tracks of F. & P. M. R. R. at Front street, Monroe, Michigan.

July 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the

tracks of G. R. & I. Ry. at and near Kingsley, Michigan.

107. July 9. To Ann Arbor Railroad Company:

Special order for railroad company to station and maintain a flagman at the intersection of railroad with Maple and Pine streets, McBain, Michigan.

**108**. July 9. To the Grand Rapids & Indiana Railway Company and

Flint Pere Marquette Railroad Company:

Special order for protection at Slosson avenue and Main street, Reed

City, Michigan.

109. July 9. To commissioner of highways township of Plymouth, county of Wayne, Michigan, and Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing south

of the village of Northville, Michigan.

110. July 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the

tracks of the G. R. & I. Ry. at Beaubien street, Petoskey, Michigan.

111. July 14. To T. F. Ahern, general superintendent of the New State Telephone Company, and D. W. Caldwell, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of the L. S. & M. S. Ry. at Huron street, Ypsilanti, Michigan.

112. July 17. To Twin City Telephone Company and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at various places in the State of Michigan.

113. July 20. To A. A. Patterson, Jr., president of the St. Joseph Valley Railway Company:

Special order authorizing the railway company to resume operation and transportation of passengers over its lines.

114. July 19. To F. T. Bisbee & Co., Athens, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. on highway at Clarendon, Michigan.

115. July 21. To Twin City Telephone Company and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at various places in the State of Michigan.

116. July 24. To Twin City Telephone Company and S. T. Blizard, superintendent of the Cleveland, Cincinnati, Chicago & St. Louis Railway Company:

Special order permitting telephone company to string wires ever the tracks of the C., C., C. & St. L. Ry. at Empire avenue, near city limits

of Benton Harbor, Michigan.

117. July 24. To H. W. Carey, assistant general manager of the Manistee & Luther Railroad Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting M. &. L. R. R. Co. to string wires over the tracks of the C. & W. M. Ry. at Florence, near Doubling, Manistee county,

Michigan.

118. July 24. To H. C. Mason, superintendent Electric Light Company, Benton Harbor, Michigan, and S. T. Blizard, superintendent of the Cleveland, Cincinnati, Chicago & St. Louis Railway Company:

Special order permitting electric light company to string wires over the tracks of the C., C., C. & St. L. Ry. near depot at Benton Harbor,

Michigan.

119. August 2. To R. D. White, Williamsburg, Michigan, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting R. D. White to string wires over the tracks

of the C. & W. M. Ry. east of depot in Williamsburg, Michigan,

120. August 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. on Main street, in Galien, Michigan.

121. August 5. To Lake Shore & Michigan Southern Railway Company:

Special order for railroad company to station and maintain a flagman

at West street crossing, Hillsdale, Michigan.

122. August 9. To T. F. Ahern, general superintendent of the New State Telephone Company, and W. H. Canniff, general manager of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of the L. S. & M. S. Ry. near Wyandotte, Michigan.

123. August 10. To Charles E. Kane, commissioner of highways, township of Martiney, Mecosta county, Michigan, and Charles M. Heald, general manager of the Detroit, Grand Rapids & Western Railroad Company:

Special order with plans and specifications for highway crossing in

Martiney township, Mecosta county, Michigan.

124. August 11. To Detroit, Grand Haven & Milwaukee Railway Company:

Special order for railway company to station and maintain a flagman at LaFayette street, and an electric bell at Clancy street, Grand Rapids, Michigan.

125. August 11. To Detroit, Grand Rapids & Western Railroad Company and Detroit, Grand Haven & Milwaukee Railway Company:

Special order for railroad companies to station and maintain a flag-

man at Steel street crossing, Ionia, Michigan.

126. August 12. To Wm. McGregor, Jr., Birch Run, Michigan, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting Wm. McGregor, Jr., to string one wire over

the tracks of the F. & P. M. R. R. at Birch Run, Michigan.

127. August 12. To Twin City Telephone Company and Milwaukee, Benton Harbor & Columbus Railway Company:

Special order permitting telephone company to string wires over the tracks of the M., B. H. & C. Ry. on Empire avenue, Benton Harbor, Michigan.

128. August 17. To W. H. Gilbert, managing director of the Valley Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at various places in the State of Michigan.

129. August 17. To W. H. Gilbert, managing director of the Valley Telephone Company, and A. B. Atwater, superintendent of the Cincinnati, Saginaw & Mackinaw Railway Company:

Special order permitting telephone company to string wires over the

tracks of the C., S. & M. Ry. at Salzburg and Saginaw, Michigan.

130. August 17. To W. H. Gilbert, managing director of the Valley Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. at various places in the State of Michigan.

131. August 24. To Saugatuck & Gauges Telephone Company (limited) and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of the C. & W. M. Ry. at Fennville, Michigan.

132. August 26. To M. A. Porter, secretary of the Northville Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the F. & P. M. R. R. near Novi, Michigan.

133. August 26. To D. C. Oakes, manager of the Mutual Telephone Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at Washington and Seventh streets, Grand

Haven, Michigan.

134. August 28. To J. H. Tripp, manager of the Kibbie Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wire over the tracks of the M. C. R. R. one mile west of Grand Junction, Michigan.

135. August 28. To Chicago & West Michigan Railway Company and Manistee & Luther Railroad Company:

Special order approving interlocking device at the crossing of the

two railroads at Florence, Michigan.

136. September 2. 'To Cleveland, Cincinnati, Chicago & St. Louis Railway Company:

Special order for repairing and reconstruction of right of way fence

along the line of said railway in the State of Michigan.

137. September 2. To Toledo, Ann Arbor & North Michigan Railway Company:

Special order for railway to repair interlocking device at its crossing

with the F. & P. M. R. R. at Clare, Michigan.

138. September 2. To Indiana & Lake Michigan Railway Company: Special order for railway company to fence right of way through the property of James LaMunion, in Berrien county, Michigan.

139. September 2. To George W. Finch, owner of the Finch Telephone Exchange, and John M. Whitman, general manager of the Chicago

& North Western Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & N. W. Ry. at various places in the State of Michigan.

140. September 3. To Berridge & Berridge, Orion, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting said firm to string wire over the tracks of the M. C. R. R. near depot, Orion, Michigan.

141. September 9. To the Valley Telephone Company and H. B.

Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. on Fremont avenue, between First and Second streets, West Bay City, Michigan.

142. September 9. To the Valley Telephone Company and A. B. Atwater, superintendent of the Cincinnati, Saginaw & Mackinaw Railroad Company:

Special order permitting telephone company to string wires over the tracks of the C., S. & M. R. at various crossings in the city of West

Bay City, Michigan.

143. September 9. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of the L. S. & M. S. Ry. in Tecumseh, Michigan.

144. September 11. To Charles C. Cutting, Steward of Michigan Asylum for the Insane, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting the stringing of an electric light wire over

the tracks of the M. C. R. R. near Asylum, Kalamazoo, Michigan.

145. September 14. To New State Telephone Company and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the tracks of the F. & P. M. R. R. at Gardendale, Aitkins and Croswell, Michigan.

146. September 14. To New State Telephone Company and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. at various places in the State of Michigan.

147. September 14. To New State Telephone Company and A. B.

Atwater, superintendent of the Grand Trunk Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at South Lyon, Oakland county, Michigan.

148. September 14. To New State Telephone Company and E. A. Gould, superintendent of the eastern division of the Wabash Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the Wabash R. R. in Springwells, Michigan.

149. September 14. To New State Telephone Company and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of L. S. & M. S. Ry. at Rockwell and Ecorce, Michigan.

150. September 24. To South Haven & Eastern Railroad Company: Special order for railroad company to build right of way fence through the property of H. D. Van Camp, Hartford township, VanBuren county, Michigan.

151. September 25. To Berlamont Telephone Company and H. B.

Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. near Berlamont and Bloomingdale, Michigan.

152. September 27. To the Valley Telephone Company and A. B. Atwater, superintendent of the Cincinnati, Saginaw & Mackinaw Railroad Company:

Special order permitting telephone company to string wires over the tracks of C., S. & M. R. R. at various places in West Bay City, Michigan.

September 27. To the Valley Telephone Company and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. at First street, West Bay City, Michigan.

September 28. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway, western division:

Special order permitting telephone company to string wires over the

tracks of the G. T. Ry. at Bennington and Grosse Isle, Michigan.

September 30. To New State Telephone Company and Charles M. Heald, general manager of the Detroit, Grand Rapids & Western

Railroad Company:

Special order permitting telephone company to string wires over the tracks of the D., G. R. & W. R. R. at Salem, Green Oak and South Lyon, Michigan.

October 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. at Elm street, Three Oaks, Michigan.

October 4. To New State Telephone Company and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the F. & P. M. R. R. near and south of Holly, Michigan:

October 4. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the

tracks of the L. S. & M. S. Ry. on Welch street, Hillsdale, Michigan.

159. October 5. To Peter Cody, commissioner of highways, township of Pinconning, county of Bay, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order with plans and specifications for highway crossing in

township of Pinconning, county of Bay, Michigan.

160. October 5. To Michigan Central Railroad Company:

Special order for erection and maintenance of electric alarm bell east of Jones, Newberry township, Cass county, Michigan.

October 6. To New State Telephone Company and A. B. Atwater, superintendent of the Grand Trunk Railway, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. near Amy and Rochester, Michigan.

October 6. To New State Telephone Company and H. W. Ash-

ley, general manager of the Ann Arbor Railroad Company:

Special order permitting telephone company to string wires over the tracks of the A. A. R. R. one-half mile north of Monroe Junction, Michigan.

163. October 7. To W. J. Jennings, commissioner of highways, township of Wise, county of Isabella, Michigan, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order with plans and specifications for highway crossing in township of Wise, county of Isabella, Michigan.

164. October 8. To Detroit Telephone Company:

Special order for the removal of unlawfully strung wires at the intersection of the Michigan Central Railroad Company's tracks and Hastings street, Detroit, Michigan.

165. October 8. To Duluth, South Shore & Atlantic Railway Com-

pany and Chicago & North Western Railway Company:

Special order requiring targets to be placed at the crossing of the two roads one-half mile west of Negaunee, Michigan.

166. October 8. To Duluth, South Shore & Atlantic Railway Com-

pany:

Special order requiring construction of depot and warehouse at Michigamme, Michigan.

167. October 8. To Duluth, South Shore & Atlantic Railway Company:

Special order requiring construction of depot and warehouse at Munising Junction, Michigan.

168. To Duluth, South Shore & Atlantic Railway Company:

Special order requiring construction of depot and warehouse at Seney, Michigan.

169. To Ann Arbor Railroad Company:

Special order for the repair and operation of interlocking plant at crossing of A. A. R. R. and F. & P. M. R. R. at Clare, Michigan.

170. October 9. To Duluth, South Shore & Atlantic Railway Com-

pany:

Special order for the repairing and rebuilding of bridge No. 157 west of Munising Junction, county of Alger, Michigan.

171. October 9. To Duluth, South Shore & Atlantic Railway Company:

Special order for the repairing and rebuilding of bridge No. 158 west

of Munising Junction, county of Alger, Michigan. 172. October 9. To Duluth, South Shore & Atlantic Railway Com-

pany:
Special order for the repairing and rebuilding of bridge No. 10, one

and one-half miles east of Eckerman, county of Chippewa, Michigan.
173. October 9. To Duluth, South Shore & Atlantic Railway Com-

pany:
Special order for the renairing and rebuilding of bridge No. 174 east

Special order for the repairing and rebuilding of bridge No. 174, east of Deerton, county of Alger, Michigan.

174. October 11. To Ira Hutchins, proprietor of Fennville Electric Light Works, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting electric company to string wires north of

depot in Fennville, Michigan.

175. October 11. To New State Telephone Company and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the tracks of the M. C. R. R. at various places in the State of Michigan.

176. October 11. To New State Telephone Company and A. B. Atwater, superintendent of the Grand Trunk Railway, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at various places in the State of Michigan.

177. October 11. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. R. & I. Ry. at various places in the State of Michigan.

178. October 12. To Lake Shore & Michigan Southern Railway Company, Michigan Central Railroad Company and Wabash Railroad Company:

Special order for the L. S. & M. S. Ry., M. C. R. R. and W. R. R. to station and maintain a flagman at the intersection of Hastings street with the tracks of said companies, in the city of Detroit, Michigan.

179. October 18. To New State Telephone Company and Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of G. T. Ry. at Owosso, Perry and one mile east of Perry, Michigan.

180. October 18. To F. A. Forbes, general manager of the Michigan Telephone Company, and F. B. Drake, general manager of the Cincinnati Northern Railroad Company:

Special order permitting telephone company to string wires over the tracks of the C. N. R. R. one mile north of Waldron, and five miles north of Prattsville, Michigan.

181. October 18. To New State Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in the State of Michigan.

182. October 19. To New State Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string wires over M. C. R. R. on Fort street, Toledo division, Detroit, Michigan.

183. October 21. To West Michigan Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Hopkins Station, Michigan.

184. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string one wire over the tracks of M. C. R. R. at Lawnsdale avenue, Detroit, Michigan.

185. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string one telephone wire over the tracks of the L. S. & M. S. Ry. at Lawnsdale avenue, Detroit, and on highway next east of Cadmus Station, Michigan.

186. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string one telephone wire over the tracks of the G. T. Ry. one mile north of station at Mt. Clemens, Michigan.

187. October 21. To F. A. Forbes, general manager of the Michigan Telephone Company, and E. A. Gould, superintendent of eastern division

of the Wabash Railroad Company:

Special order permitting telephone company to string one telephone wire over the tracks of Wabash R. R. at Lawnsdale avenue, Detroit, Michigan.

188. October 22. To Flint & Pere Marquette Railroad Company and

Manistee & North-Eastern Railroad Company:

Special order for renewal of interlocking plant at the intersection of the tracks of the two railroads at Manistee, Michigan.

189. October 26. To Tecumseh Telephone Company and Lake Shore

& Michigan Southern Railway Company:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in the village of Tecumseh, Michigan.

190. October 26. To Tecumseh Telephone Company and Detroit,

Toledo & Milwaukee Railroad Company:

Special order permitting telephone company to string wires over the tracks of the D., T. & M. R. R. at various places in Tecumseh, Michigan.

191. October 26. To John H. Tripp, manager of the Kibbie Telephone Company, and Charles M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string one telephone wire over the tracks of the C. & W. M. Ry. on highway north of depot

at Grand Junction, Michigan.

192. October 27. To Fennville Electric Light Works and Chicago

& West Michigan Railway Company:

Special order permitting telephone company to string one electric light wire over the tracks of the C. & W. M. Ry. on highway north of depot at Fennville, Michigan.

193. October 27. To Benton Harbor & Eastman Springs Street Railway Company, Cleveland, Cincinnati, Chicago & St. Louis Railway Company, and Milwaukee, Benton Harbor & Columbus Railway Company:

Special order approving street railway company's crossing of the tracks of C., C., C. & St. L. Ry. and M., B. H. & C. Ry. on Main street, Benton Harbor, Michigan, and providing for installation, operation and maintenance of derailing system.

194. October 28. To Detroit Telephone Company and Michigan Cen-

tral Railroad Company:

Special order permitting telephone company to string wires over the

tracks of the M. C. R. R. at various places in Detroit, Michigan.

195. October 30. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over the tracks of the M. C. R. R. near freight house, Bay City, Michigan.

196. October 30. To the Valley Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string telephone wires over the tracks of the M. C. R. R. at various places in West Bay City, Michigan.

197. October 30. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand

Trunk Railway system, western division:

Special order permitting telephone company to string two wires over the tracks of the G. T. Ry. on first street east of Bancroft station, Michigan.

198. October 30. To the Valley Telephone Company and Grand

Trunk Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. By. at Main street, West Bay City, Michigan.

199. November 1. To Monroe Gas & Electric Light Company and

Lake Shore & Michigan Southern Railway Company:

Special order permitting gas and electric light company to string two electric light wires between Harrison and Cass streets in Monroe, Michigan.

200. November 2. To Lake Shore & Michigan Southern Railway

Company and Detroit & Lima Northern Railway Company:

Special order approving interlocking switch and signal system at the

crossing of the two railways in Adrian, Michigan.

201. November 3. To C. Corbett, district superintendent of the Western Union Telegraph Company, and S. R. Callaway, president of the Lake Shore & Michigan Southern Railway Company:

Special order permitting W. U. T. company to string wires over the

L. S. & M. S. Ry. between Alexis and Delray, Michigan.

202. November 3. To Detroit Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string wires over the

M. C. R. at various places in Detroit, Michigan.

204. November 5. To Detroit Telephone Company and Lake Shore & Michigan Southern Railway Company.

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at various places in Detroit, Michigan.

205. November 6. To James E. Tryon, general manager of the Michigan Auxiliary Fire Alarm Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting fire alarm company to string one wire over

the G. T. Ry. in Detroit, Michigan.

206. November 6. To James E. Tryon, general manager of the Michigan Auxiliary Fire Alarm Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting fire alarm company to string one wire over

the tracks of the M. C. R. R. at Clay avenue, Detroit, Michigan.

207. November 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and J. H. P. Hughart, general manager of the Grand Rapids & Indiana Railway Company:

Special order permitting telephone company to string wires over the tracks of the G. R. & I. Ry. at various places in the State of Michigan.

208. November 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over the tracks of the M. C. R. R. at Scotten avenue, Detroit, Michigan.

209. November 6. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string two wires over

the G. T. Ry. at Vine street, Vicksburg, Michigan.

210. November 6. F. A. Forbes, general manager of the Michigan Telephone Company, and E. H. Canniff, general manager of the Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string two wires over the tracks of the L. S. & M. S. Ry. at Kalamazoo avenue, Kalamazoo,

Michigan.

211. November 8. To Detroit Telephone Company and Grand Trunk

Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the L. S. & M. S. Ry. at Hastings street and Cass avenue, Detroit, Michigan.

212. November 8. To Detroit Telephone Company and Grand Trunk

Railway system, western division:

Special order permitting telephone company to string wires over the tracks of the G. T. Ry. at various places in Detroit, Michigan.

213. November 8. To John H. Tripp, manager of the Kibbie Telephone Company, and Chas. M. Heald, general manager of the Chicago. & West Michigan Railway Company:

Special order permitting telephone company to string one wire overthe tracks of the C. & W. M. Ry., near Monroe street, Bangor, Michigan.

214. November 9. To Northwestern Ohio Telephone Company and Lake Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string one wire over

the tracks of the L. S. & M. S. Ry. at Jasper, Michigan.

215. November 9. To Northwestern Ohio Telephone Company and Wabash Railroad Company:

Special order permitting telephone company to string wires over the tracks of the Wabash Railroad three miles south of Adrian, Michigan.

216. November 12. To Nathan Lefler, commissioner of highways, Gibson township, Bay county, Michigan, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order with plans and specifications for highway crossing in Gib-

son township, Bay county, Michigan.

217. November 12. To New State Telephone Company & Ann Arbor-Railroad Company.

Special order permitting telephone company to string wires over the tracks of the A. A. R. R. at Grand River wagon road, three-quarters mile east of Howell, Michigan.

218. November 16. To Flint & Pere Marquette Railroad Company: Special order for railroad company to station and maintain a flagman at Main street crossing in the village of Plymouth, Michigan.

219. November 16. To Montcalm County Telephone Association and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the tracks of the C. & W. M. Ry. at various places in the State of Michigan.

220. November 16. To Montcalm County Telephone Association and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting telephone company to string wires over the

tracks of the G. T. Ry. four miles west of Sheridan, Michigan.

221. November 16. To Andrew Wallin, commissioner of highways, Mellen township, Menominee county, Michigan, and J. A. Whitman, general manager of the Chicago & Northwestern Railway Company:

Special order with plans and specifications for highway crossing in

Mellen township, Menominee county, Michigan.

222. November 17. To the city of West Bay City and Grand Trunk

Railway system, western division:

Special order permitting said city to string electric light wires over the tracks of the G. T. Ry. in West Bay City, Michigan.

223. November 17. To the city of West Bay City and Michigan Cen-

tral Railroad Company:

Special order permitting said city to string electric light wires over the tracks of the M. C. R. R. at various places in West Bay City, Michigan.

224. November 18. To F. A. Forbes, general manager of the Michigan Telephone Company, and A. B. Atwater, superintendent of the

Grand Trunk Railway system, western division:

Special order permitting telephone company to string two wires over the tracks of the G. T. Ry. at first street east of station at Attica, Michigan.

225. November 18. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan

Central Railroad Company:

Special order permitting telephone company to string two wires over the tracks of the M. C. R. R. west of depot at Dayton, Michigan.

226. November 20. To Pontiac, Oxford & Northern Railroad Com-

nanv:

Special order for repairs and renewals to be made in track and bridge structures of said railroad within thirty days.

227. November 24. To New State Telephone Company and Lake

Shore & Michigan Southern Railway Company:

Special order permitting telephone company to string four wires over the tracks of the L. S. & M. S. Ry. in Maybee, Michigan.

228. November 26. To F. A. Forbes, general manager of the Michigan Telephone Company, and M. V. Meredith, general manager of the South Haven & Eastern Railroad Company:

Special order permitting telephone company to string wires over the tracks of the S. H. & E. R. at various places in the State of Michigan.

229. November 26. To F. A. Forbes general manager of the Michigan Telephone Company, and E. A. Gould, superintendent of eastern division of Wabash Railroad Company:

Special order permitting telephone company to string wires over the

tracks of Wabash R. R. at Leonard street, Detroit, Michigan.

230. November 26. To F. A. Forbes, general manager of the Michigan Telephone Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over

the tracks of M. C. R. R. at Nepsing street, in Lapeer, Michigan.

231. November 26. To F. A. Forbes, general manager of the Michigan Telephone Company, and Chas. M. Heald, general manager of the Chicago & West Michigan Railway Company:

Special order permitting telephone company to string wires over the

tracks of C. & W. M. Ry. two miles north of Hartford, Michigan.

232. November 26. To J. Williams, Jr., secretary of the Adrian Telephone Company, and J. R. Megrue, general manager of the Detroit & Lima Northern Railway Company:

Special order permitting telephone company to string wires over the

tracks of D. & L. N. Ry. two miles north of Adrian, Michigan.

233. November 26. To New State Telephone Company and Michigan Central Railroad Company:

Special order permitting telephone company to string two wires over-

the tracks of M. C. R. R. on Lynn street, Owosso, Michigan.

234. November 29. To F. A. Forbes, general manager of the Michigan Telephone Company, and S. T. Crapo, general manager of the Flint & Pere Marquette Railroad Company:

Special order permitting telephone company to string two wires over

the tracks of F. & P. M. R. R. on Caroline street, Milford, Michigan.

235. November 30. To James E. Tyron, general manager of the Michigan Auxiliary Fire Alarm Company, and E. A. Gould, superintendent of eastern division of the Wabash Railroad Company:

Special order permitting fire alarm company to string one wire over the tracks of Wabash R. R. at Grand River avenue, Detroit, Michigan.

236. November 30. To James E. Tyron, general manager of the Michigan Auxiliary Fire Alarm Company, and H. B. Ledyard, president of the Michigan Central Railroad Company:

Special order permitting the fire alarm company to string one wire over the tracks of the M. C. R. R. at Grand River avenue, Detroit, Michi-

zan.

237. November 30. To James E. Tryon, general manager of the Michigan Auxiliary Fire Alarm Company, and W. H. Canniff, general manager of the Lake Shore & Michigan Southern Railway Company:

Special order permitting fire alarm company to string one wire over the tracks of the L. S. & M. S. Ry. at Grand River avenue, Detroit, Michi-

gan.

238. November 30. To James E. Tyron, general manager of the Michigan Auxiliary Fire Alarm Company, and A. B. Atwater, superintendent of the Grand Trunk Railway system, western division:

Special order permitting fire alarm company to string one wire over the tracks of G. T. Ry. at Grand River avenue, Detroit, Michigan.

## WIRE INSPECTIONS—1896.

The provisions of act No. 171 of the session laws of 1893, makes it unlawful for any corporation or person to string any wire, electric or other, over the tracks of any railroad company, except at such places and in such manner as shall be approved by the Commissioner of Railroads. It also makes it incumbent upon any corporation desiring so to string any wire, to give to the railroad company ten days notice in writing of the place where and the manner in which it desires to string the same, and the place where and the time when it will apply to the Commissioner of Railroads for his approval. Section 6 of the same act makes it the duty of the Commissioner of Railroads to inspect all points where the tracks of the railroad companies are crossed by wires, and to order the same raised and such other change or changes to be made as he may deem necessary for protection against accident. This act also requires all wires strung over the railroad companies tracks to be at least twenty-two feet above the railroad grade.

During the past year many applications have been made to string wires over the tracks of railroad companies, and in each instance, when permission has been granted, an order has been made with specifications attached setting forth the manner in which the wire must be strung, the kind of material used, the length of the poles, the number of cross-arms on each pole, number of wires on each cross-arm, the kind of pins required, the height of the wires above the railroad grade, and such further and other requirements as the peculiar nature of the location demands, in order to secure the greatest possible safety to the public.

A careful and thorough inspection has been made of the places where telegraph, telephone, trolley and electric light wires are strung over the tracks of the railroad companies, and while some have been found in an unsafe condition and not in conformity with the provisions of the statute, yet in almost every instance, as soon as the corporation owning the wires has been notified of the defect, a hearty and speedy compliance with the requirements of the statute has been the result.

## BATTLE CREEK.

The trolley wires of the Battle Creek Street Railway were found to be less than the statutory height above the railroad track at the following points:

At the M. C. R. R. crossing on Maple street, 21 feet and 5 inches. At the G. T. Ry. crossing on Marshall street, 21 feet and 7 inches.

At the G. T. Ry. crossing on South Jefferson street, 21 feet and 9 inches.

At the D., T. & M. R. R. crossing on South Jefferson street, 21 feet and 9 inches.

At the G. T. Ry. crossing on Kendall street, 20 feet and 9 inches.

# FIRE ALARM WIRES.

The fire alarm wires over the M. C. R. R. crossing on Maple street are on single cross-arms, with telephone wires on brackets on the same poles, which are 100 feet apart.

# ELECTRIC LIGHT WIRES.

Battle Creek Electric Light Company's wires at the M. C. crossing on Marshall street are attached to a board nailed to a pole and the cross-arms nailed to the board.

### TELEPHONE AND TELEGRAPH WIRES.

The Michigan Telephone Company's wires over the G. T. Ry. track at the east end of the bridge, two blocks east of depot, are attached to a small board fastened to the railway signal post. The private telephone wire over the G. T. tracks at the east end of Main street is improperly constructed.

The Battle Creek Electric Light Co., the Citizen Electric Light Co., and the Michigan Telephone Company, do not use steel pins nor double cross-arms, and all poles are more than the statutory distance apart.

## BAY CITY.

The trolleys of the Bay City Consolidated Street Ry. Co. at the following points are not the proper height above the railroad tracks:

At the M. C. crossing on Broadway and 27th streets, 20 feet, 4 inches.

At the F. & P. M. crossing on 34th street, 20 feet, 2 inches.

At the F. & P. M. crossing on 1st street, 19 feet, 10 inches.

At the F. & P. M. crossing on Central avenue, 20 feet 8 inches.

At the F. & P. M. crossing on Columbia avenue, 21 feet, 11 inches.

At the F. & P. M. crossing on 34th street, 20 feet, 2 inches.

At the F. & P. M. siding on Atlantic street, 21 feet, 7 inches.

### ELECTRIC WIRES.

The Detroit Mill Company's wires over the F. & P. M. and D. & M. Railroads are on small sawed poles nailed to building, and short posts set in ground.

The Eddy Sheldon Company's wires over the F. & P. M. and D., G. H. & M. Railroads are strung on small single cross-arms and brackets.

The Bay City Electric Company's wires over the F. & P. M. and D., G. H. & M. crossing, near McEwan Bros. & Company's factory; at M. C. tracks near Emer, Kann & Company's mill; at M. C. crossings on Park, Garfield, Van Buren & Madison streets and Madison avenue; and at the F. & P. M. crossings on 3d, 5th, 9th, 13th and 16th streets, are all on single cross-arms and brackets nailed to top of the poles.

### TELEPHONE AND TELEGRAPH WIRES.

The W. U. Telegraph wires at the M. C. crossing near the Bay county

fair grounds are on single cross-arms.

The Michigan Telephone Company's wires at D., G. H. & M. crossing, north of M. C.; at water works crossing; at McEwen Bros. and Co. crossing of the F. & P. M.; at F. & P. M. belt line crossing; at Jefferson street and Columbia crossing of the F. & P. M.; and at M. C. crossings on Lafayette and South avenues, are all on single cross-arms. Same company's wires at the M. C. crossings on Madison street and Washington avenue, and the F. & P. M. crossing on First street, are strung on brackets.

The fire alarm wires at M. C. crossings on Jefferson street and Lafayette avenue are on small boards and brackets.

## BAY CITY (WEST SIDE).

The West Bay City Electric Company's wires at the M. C. round house; at M. C. crossing on Mount street, and also Ross Bradley Company's crossing of the C., S. & M. are strung on brackets.

The fire alarm wires near M. C. roundhouse; at crossing four blocks north of Washington street, and at C., S. & M. crossings on Mount, 4th, Walnut and Hart streets, are fastened on brackets.

The W. U. Telegraph wires at C., S. & M. crossing on Washington

street, on brackets.

The Michigan Telephone Company's wires at M. C. crossings on Midland, Switzer, Eastwood, State, and near roundhouse, are on brackets.

## BENTON HARBOR AND ST. JOSEPH.

Michigan Telephone Company, at all railroad crossings, use single cross-arms and wooden pins.

The Benton Harbor & St. Joseph Railway Company's electric light wires are on single cross-arms and brackets at all railroad crossings.

### DETROIT.

The trolley wires at the following crossings are defective:

At the G. T. crossing on Champlain street, 21 feet 7 inches above rail.

At the G. T. crossing on Forest street, 21 feet 8 inches above rail.

At M. C. Belt Line crossing on Kercheval street, 21 feet 3 inches above rail.

- At M. C. Belt Line crossing on Champlain street, 21 feet 4 inches above rail.
- At D., G. R. & W. crossing on Michigan avenue, 20 feet 7 inches above rail.
  - At M. C. crossing on Fort street, 21 feet 6 inches above rail.
  - At M. C. crossing on River street, 21 feet 10 inches above rail.
- At L. S. & M. S. crossing on Fort street, 21 feet 6 inches above rail.

  At Union Depot Co. track crossing, west of depot, 21 feet 5 inches above rail.
  - At East River track on River street, 20 feet 2 inches above rail.
- At Union Depot Co.'s tracks on River street, 20 feet 2 inches above rail.

### ELECTRIC LIGHT WIRES.

The Detroit Electric Light Company's wires over the G. T. on Ottawa street, Caufield and Alexandrine streets; the M. C. crossing on Gratiot avenue, Foundry and John R. streets; the D., G. R. & W. crossings on Michigan avenue and on Lieb and Wight streets; the Electric Light Company's wires at the M. C. crossings on Buchanan, 12th streets, Clark, Porter, Michigan, Livermore, Rudell, Milwaukee, Woodward, Greenwood and Holden avenues, and Grand boulevard; the Union Depot track crossings on Clark, Moran and Junction avenues are not strung in accordance with the statutes.

### TELEPHONE AND TELEGRAPH WIRES.

The Michigan Telephone Company's wires at the following crossings do not comply with the provisions of the law:

At M. C. crossings on Champlain, Wight, Russell, John R., Greenwood, N. Lincoln, 20th, Fort, 17th, and Porter streets, Gratiot, Milwaukee, Cass, Michigan and Dix avenues, and Grand boulevard; also at the G. T. crossings on Antietam, Adelaide streets, and Gratiot, Mack, Alexandria and Michigan avenues; also Union Depot Company's tracks on Junction avenue, 7th and River streets.

The wires of the Detroit and the New State Telephone Company at the following points were found defective:

At G. T. crossing between Larned and Congress and on Riopelle street; at M. C. crossings on Wight and Fort streets, and at the Union Depot Company's tracks on River and 6th streets.

The city fire alarm wires at the following crossings were improperly constructed:

At G. T. crossings on Michigan, Gratiot, Trombley avenues, Atwater, Macomb, Alfred, Beaubien streets; at the M. C. crossings on Gratiot, Milwaukee, Cass, Holden, Trumbull, Maybury, Underwood and Clark avenues, 12th, 20th, 24th, Buchanan, Wight, Hastings and John R. streets and Grand boulevard; also the Union depot crossing on Minnie street.

In addition to the above there were some wires belonging to the W. U. Telegraph Co., Edison Illuminating Co., Brush Electric Co., and the G. T. Railroad Co., over railroad tracks, that were found defective.

## EATON RAPIDS.

Western Union Telegraph Company's wires at the M. C. and L. S. & M. S. R. crossing, are fastened on brackets; same company's wires over L. S. & M. S. elevator tracks, on single cross-arms, and brackets on building.

New State Telephone Company's wires at same place are on single cross arms and buttons nailed to building.

### FLINT.

People's Electric Light Company's wires near G. T. depot are strung over tracks on single cross-arms, with poles 200 feet apart. Same company's wires at east end of G. T. yards, on Avont street; at F. & P. M. crossing to electric plant; at F. & P. M. crossing on Kearsly street; at viaduct south of F. & P. M. depot; at G. T. crossing of Flint Wagon Works track, are all strung on single cross-arms and brackets.

### TELEPHONE AND TELEGRAPH WIRES.

W. U. Telegraph Company's wires at G. T. crossing on Saginaw street are on single cross-arms.

Michigan Telephone Company's wires at crossing of G. T. and Saginaw streets; at F. & P. M. crossing on Second street; at F. & P. M. crossing on Kearsly street; at crossing south of F. & P. M. depot; and crossing near Flint Wagon Works over G. T., are all improperly constructed, on single cross-arms and brackets.

Fire alarm wires at G. T. crossing on Avont street; at F. & P. M. planing mill siding on same street, and wire running to alarm box No. 18 are all on brackets and small boards.

### FOWLERVILLE.

Electric light wires over D., G. R. & W. R. R., near depot, are strung on single cross-arms, with poles 100 feet apart.

## HOLLAND.

Electric light wires belonging to city of Holland on 8th street and 10th street crossings of C. & W. M. R. R. are constructed on single cross-arms, with wooden pins, and poles 200 feet apart.

The Fire Alarm and Michigan Telephone Company's wires are also on single cross-arms and wooden pins.

### LUDINGTON.

The Electric Light Company's wires over F. & P. M. tracks, near depot and near engine house, are strung on single cross-arms and fastened with wooden pins. Michigan Telephone Co.'s wires at F. & P. M. yards near the dock, and South James street crossing near depot, are improperly strung.

### HOWELL.

Electric wires at D., G. R. & W. R. R. crossings, near depot, are on single cross-arms with wooden pins.

## GRAND RAPIDS.

The Grand Rapids Consolidated Street Railway Company's trolleys were found too low at the following points:

- At D., G. R. & W. crossing on South Division street, 21 feet 6 inches.
- C. & W. M. (Phoenix side track) crossing on West Fulton, 20 feet 1 inch.
  - C. & W. M. crossing on West Fulton, 20 feet 6 inches.
  - C. & W. M. crossing on Shawmut avenue, 20 feet 8 inches.
  - C. & W. M. crossing on West Leonard street, 21 feet 10 inches.
  - C. & W. M. crossing on Grandville avenue, 20 feet 5 inches.
  - C. & W. M. crossing on Prescott street, 20 feet 10 inches.
  - G. R. & I. crossing on Shawmut avenue, 20 feet 8 inches.
  - G. R. & I. crossing on West Leonard street, 21 feet 10 inches.
  - D., G. H. & M. crossing on Quimby street, 21 feet 1 inch.

## IONIA.

The Ionia Electric Light Company's wires at the D., G. H. & M. crossings on Steel, Welton, Jackson and Mill streets, are all strung on single cross arms and wooden pins.

The Michigan Telephone Company's wires at the D., G. H. & M. crossing on Dexter street, and at the D., G. R. & W. crossing on Jefferson avenue, are strung on single cross-arms.

The W. U. Telegraph Co.'s wires at the D. G. R. & W. crossing on Mill street are strung on single cross-arms.

The fire alarm wires at all railroad crossings are defective.

### JACKSON.

The electric wires at the following points are on single cross-arms and fastened with wooden pins, and do not comply with the statute in regard to the distance between the poles:

At M. C. crossings on North, Ingham streets, and Elm and Warren

avenues, and at G. T. crossing on Ganson street.

The Michigan Telephone Company's wires at G. T. and M. C. crossings on Ganson street are strung on single cross-arms with brackets.

## KALAMAZOO.

The Citizens' Street Railway Company's trolleys at the following points do not comply with the law:

At G. R. & I. crossing on East Man street, 21 feet 2 inches.

At L. S. & M. S. crossing on East Main street, 21 feet 8 inches.

At L. S. & M. S. crossing on Portage street, 21 feet 4 inches.

At M. C. crossing on East avenue, 20 feet and 6 inches.

At M. C. crossing on West Main street, 21 feet 5 inches.

At M. C. crossing on North street, 21 feet 2 inches.

The W. U. Telegraph Co., G. R. & I. Telegraph Co., Kalamazoo Telephone Co., and Electric Light Company's wires at all points where they cross railroads, are not strung in accordance with the statute.

### MANISTEE.

The Manistee, Filer City & East Lake Railway Company's wires (trolley) at the following points are too low:

At M. & G. R. crossing on 8th street, 18 feet 2 inches.

(Feed wires at same point 21 feet 6 inches.)

At F. & P. M. crossing, three blocks east of depot, 20 feet 10 inches.

The electric wires at the M. & N. E. shops and at the River crossings are on single cross-arms, brackets and wooden pins.

The Michigan Telephone and W. U. Telegraph Company's wires at River street crossing of the M. & N. E. are on single cross-arms and brackets.

### MUSKEGON.

The Muskegon Street Railway trolleys at the following points are not the proper distance above the tracks:

At C. & W. M. crossing on Ottawa street, 20 feet 6 inches.

At C. & W. M. crossing on Western avenue, 20 feet 1 inch. At C. & W. M. crossing at street railway shops, 17 feet 6 inches.

At C. & W. M. crossing at Muskegon Steel Works, 17 feet 6 inches.

At C. & W. M. crossing at Lake Michigan Park track, 17 feet 6 inches.

At T., S. & M. crossing on Western avenue, 19 feet.

At T., S. & M. crossing on Sanford street, 20 feet 7 inches.

At G. R. & I. crossing on Western avenue, 19 feet.

At G. R. & I. crossing on Sandford street, 21 feet 1 inch.

The Michigan Telephone Co., Muskegon Electric Light Co, W. U. Telegraph Co. and the G. R. & I. Telegraph Co., are all using single cross-arms, wooden pins, small poles and brackets.

## owosso.

The Owosso & Corunna Traction Company's trolley wires at the following points are not strung in accordance with the statute:

At A. A. crossing on Washington street, 21 feet 2 inches. At A. A. crossing at the power house, 21 feet 4 inches.

At A. A. crossing on Corunna street, 20 feet 9 inches.

The Caledonia Electric Light Company's wires at A. A. crossing on Washington, and the D., G. H. & M. crossings in front of the power house,

are on single cross-arms.

The Postal Cable and Telegraph Co., Michigan Telephone Co., and the W. U. Telegraph Co.'s wires at all railroad crossings are defective.

## PONTIAC.

The Oakland Railway Company's trolley at the following crossings are defective:

At G. T. crossing, 20 feet 3 inches.

At. G. T. crossing three-fourth mile east of depot, 21 feet.

At P., O & N. crossing near depot, 21 feet 3 inches.

The Standard Electric Light Company's wires at the following points are on single cross-arms:

At G. T. crossings on Florence and Warren streets, and at the P., O.

& N. crossings on Howard street and G. T. Junction.

The W. U. Telegraph, New Telephone and Michigan Telephone Companies use single cross-arms and wooden pins.

### PORT HURON.

The City Electric Railway Company's trolley wires at the following points are too low:

At G. T. crossing on Pine Grove avenue, 21 feet 9 inches, and at the

F. & P. M. crossing on Pine Grove avenue, 20 feet 1 inch.

The Excelsior Electric Light Company's wires at the following points are strung on single cross-arms and wooden pins are used:

At F. & P. M. crossings at grain elevator, water works, and near depot; and also on Butler, Quay, Military, 24th and Stone streets.

The Michigan Telephone Company's wires at the F. & P. M. crossings on Bard, Butler and Sarnia streets, and the G. T. crossings on Clyde, Quay, Military, Stone and Park streets, are improperly strung on single cross-arms and wooden pins.

The New State Telephone Company's wires at the grain elevator near depot, and the F. & P. M. crossings on 10th and West Park streets, are

defective.

### REED CITY.

G. R. & I. Telegraph Company's wires are on single cross-arms at all railroad crossings.

## SAGINAW (EAST SIDE).

The Saginaw Electric Light and Power Company's wires are improp-

erly strung at the following points:

At the M. C. crossing on Alger, Holden, Emerson, South Tilden streets, and Jefferson avenue, on first street south of Warren avenue, on first street north of Warren avenue, and on first street north of Atwater street; at the F. & P. M. crossings on Mackinaw and Washington streets; at the belt line crossings on Center and Hess streets; at the C., S. & M. crossings on Atwater, Thompson, Mackinaw streets and east of the depot.

The Swift Electric Light Company's wires at the F. & P. M. crossing on Third street are strung on single cross-arms and with wooden pins.

The Michigan Telephone Company's wires at the following crossings

are defective, and do not comply with the statute:

At F. & P. M. crossings on First, Wardsworth, Sheridan, Mackinaw, Hess and Washington streets; at M. C. crossings on Jefferson, Atwater and Emerson streets; at the belt line crossing on Jefferson avenue and at the C., S. & M. crossing on Holland avenue.

The W. U. Telegraph wires at F. & P. M. crossings on Merson street

and at Barber Asphalt Co. are strung on single cross-arms.

The city fire department wires at F. & P. M. crossings on Fourth, Hess and Washington streets; at the M. C. crossings on First, Atwater and Holden streets, and Jefferson avenue; and the T. S. & M. crossings on South Washington and Holland avenue, and Thompson street, are improperly strung and wooden pins are used.

# SAGINAW (WEST SIDE).

The Saginaw Electric Light and Power Company's wires at the following points are defective, single cross-arms, brackets and wooden pins being used:

At M. C. crossings on Michigan, Cleveland, Madison and Bristol streets; at C., S. & M. crossing on Genesee avenue, and the belt line crossing on the Gratiot road.

The Michigan Telephone Company's wires at the following points do

not comply with the requirements of the statute:

At the M. C. crossings on first and second streets east of Michigan avenue; on Cleveland, Madison, Monroe and Clinton streets; and the belt line crossings at Gratiot road and the first road north of Gratiot road.

The fire alarm wires at the following crossings are improperly con-

structed:

At the belt line crossing on Michigan avenue, and at the M. C. crossings on Cleveland, Monroe, Bristol and Genesee streets.

### ST. JOHNS.

The electric light wires at the D., G. H. & M. depot and at the crossing on Clinton street are strung on single cross-arms.

The Crowley Telephone Company's wires on Clinton street are on single arms and wooden pins.

### WHITE CLOUD.

The electric light wires at the depot are strung on single cross-arms.

### WILLIAMSTON.

The electric light wires over the D., G. R. & W. are on single cross-arms and the poles 150 feet apart.

# CIRCULARS ISSUED BY THE COMMISSIONER OF RAILROADS DURING THE YEAR 1897, AP-PROVING STYLES OF FENCING.

# STATE OF MICHIGAN, OFFICE OF THE COMMISSIONER OF RAILBOADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

The Consolidated Steel and Wire Company of Chicago, having made application for the official approval of the Commissioner of Railroads, of the consolidated field fencing, so called, to be used by railroad companies for right of way fence, and having made a personal inspection and test of said fence, and being satisfied that the same is equal in strength, closeness of construction and efficiency, to prevent the passage of all stock through the same, and equals the height of the standard fence now required by law;

Now, Therefore, By virtue of the power vested in me by section 15, article IV, act 198, laws of 1873, and acts amendatory thereof, as amended by act 26, laws of 1889, authority is hereby granted to the railroad companies of this State to use the said consolidated field fencing for fencing their respective rights of way, subject to the following conditions:

Railroad companies using this fence will be required to comply with the law for railroad fence as to dimensions of posts and setting the same, and leveling the inequalities of ground under the fence: Provided, The posts used in construction may be placed at a distance of 16 feet apart from center to center.

The fence shall be constructed in accordance with attached plan with specifications as follows: The fence shall consist of twelve steel lateral or strand wires, bottom and top wires No. 9 gauge; all other strand wires No. 11 gauge. The spaces beginning at the bottom to be  $2\frac{3}{4}$ , 3,  $3\frac{1}{2}$ , 4,  $4\frac{1}{2}$ , 5,  $5\frac{1}{2}$ , 6, 7, 8 and 9 inches.

There shall be a vertical stay wire of No. 12 gauge, wrapped and immovably fixed to each strand wire, not to exceed one foot apart.

In Testimony Whereof, Witness my hand and the official seal of this department, this eighth day of April, A. D. 1897.

(Signed.) SYBRANT WESSELIUS,

Commissioner of Railroads.

# STATE OF MICHIGAN. OFFICE OF THE COMMISSIONER OF RAILROADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

The Lamb Wire Fence Company of Tecumseh, Michigan, having made application for the official approval of the Commissioner of Railroads, of the Lamb Woven Wire Fence, so called, to be used by railroad companies for right of way fence, and having made a personal inspection and test of said fence, and being satisfied that the same is equal in strength, closeness of construction and efficiency, to prevent the passage of all stock through the same, and equals the height of the standard fence now required by law;

Now, Therefore, By virtue of the authority vested in me by section 15, article IV, act No. 198, laws of 1873, and acts amendatory thereof, as amended by act 26, laws of 1889, authority is hereby granted to the railroad companies of this State to use the said Lamb woven wire fence for fencing their respective rights of way, subject to the following con-

ditions:

Railroad companies using this fence will be required to comply with the law for railroad fence as to dimensions of posts and setting the same, and leveling the inequalities of ground under the fence: Provided. The posts used in construction may be placed at a distance of 16 feet apart from center to center.

The fence shall be constructed in accordance with attached plan with specifications as follows: The fence shall consist of 11 lateral or strand wires, bottom wire to be No. 9 gauge and top wire to be No. 7 gauge. The bottom wire shall be strung not to exceed three inches from the ground, and the spaces between lateral wires beginning from the bottom shall be as follows: 3,  $3\frac{1}{2}$ , 4,  $4\frac{1}{2}$ ,  $5\frac{1}{2}$ , 6, 7,  $7\frac{1}{2}$ , 8 and 9 inches.

There shall be vertical steel stay wires of No. 11 gauge wrapped and immovably fixed to each lateral wire not to exceed 14 inches apart.

In TESTIMONY WHEREOF, Witness my hand and the official seal of this department, this third day of May, A. D. 1897.

(Signed.)

SYBRANT WESSELIUS.

Commissioner of Railroads.

# STATE OF MICHIGAN, OFFICE OF THE COMMISSIONER OF RAILROADS.

To General Managers and Superintendents of Railroads in the State of Michigan:

The McMullen Woven Wire Fence Company of Chicago, having made application for the official approval of the Commissioner of Railroads, of McMullen's steel wire cable fencing, so called, to be used by railroad companies for right of way fence, and having made a personal inspection and test of said fence, and being satisfied that the same is equal in strength, closeness of construction and efficiency, to prevent the passage of all stock through the same, and equals the height of fence now required by law;

Now, Therefore, By virtue of the authority vested in me by section 15, article IV, act No. 198, laws of 1873, and acts amendatory thereof, as amended by act 26, laws of 1889, authority is hereby granted to the railroad companies of this State to use the said McMullen steel wire cable fencing for fencing their respective rights of way, subject to the

following conditions:

Railroad companies using this fence will be required to comply with the law for railroad fence as to dimensions of posts and setting the same, and leveling inequalities of ground under the fence so that lower strand shall not be over three inches from ground at any point: Provided, That posts used in construction may be placed at a distance of 16 feet apart from center to center.

The fence shall be constructed in accordance with the attached plan with specifications as follows: The fence shall consist of ten lateral cab'es as follows: Top cable, four strands No. 12 steel wire; next eight cables, each two strands No. 13 steel wire; bottom cable, two strands No. 12 steel wire, with twenty-four cross or tie wires to the rod of No. 13 gauge. The spaces between the cables beginning at the bottom to be  $3\frac{1}{2}$ ,  $3\frac{1}{2}$ , 6, 6, 6, 9, 9, 9, inches.

In Witness Whereof, I have hereunto set my hand and caused the seal of the department to be affixed at the Capitol, in the city of Lan-

sing, this twenty-second day of October, A. D. 1897.

(Signed.)

SYBRANT WESSELIUS,

Commissioner of Railroads.

# BOARD OF RAILROAD CROSSINGS.

The Board of Railroad Crossings is composed of the Commissioner of Railroads, the Secretary of State and the Attorney General.

It is their duty to examine and approve or disapprove all maps filed, showing the line of proposed railroads or extensions of established lines.

It is their especial duty to carefully investigate all proposed crossings of the tracks of other railroads, and to order at these crossings such mechanical safety appliances, or other protection from danger of collision, as in their judgement the interests of public safety demand.

The following is a brief summary of the record of proceedings of the

board for the year 1897:

The board met on February 4 to consider a map filed by the Lake Superior & Ishpeming Railway Company, showing proposed extension of their line in the city of Ishpeming, with numerous crossings of the tracks of the Duluth, South Shore & Atlantic Railway and the Chicago & Northwestern Railway. Serious objections were made to the proposed crossings, and the Board adjourned until February 19 to allow the officials of the roads in interest to make an amicable arrangement for the crossings, if possible.

Another meeting was held on February 19, but the railroad companies, being still unable to agree, a further adjournment was taken until March 30. In the meantime an inspection of the location was ordered made by the Secretary of State, the Attorney General and Mechanical Engineer E. F. Moore.

On March 30, the board met, listened to the report of the inspection and adjourned until April 1, at which time the map was approved, and a first-class interlocking switch and signal system was ordered at the crossing.

At a meeting of the board held on February 4, a map was presented by the Munising Company, showing route of their line through Alger and Marquette counties, with crossing of the tracks of the Duluth, South Shore & Atlantic Railway. At this meeting letters were received from the chief engineer of the Duluth, South Shore & Atlantic Railway, waiving the right of notice, and stating that an amicable arrangement had been made for the crossing in question, the Duluth, South Shore & Atlantic crossing over the tracks of the Munising Railway.

The map as presented was approved at this meeting.

On March 30, the board met to consider a map filed by the Detroit & Lima Northern Railway, showing line through Lenawee county and

the city of Adrian, with crossing of the Lake Shore & Michigan Southern Railway. Without any action being taken, the board adjourned to meet in the city of Adrian April 2 for an inspection of the premises. After making this inspection, another meeting was held on April 8, at which time the map was approved and a first-class interlocking and derailing switch and signal system ordered installed and maintained at the crossing.

On April 27, the Au Sable & Northwestern Railroad Company presented a map showing line through Montmorency county, with crossing of the Bear Lake branch of the Michigan Central Railroad.

An amicable arrangement was made for this crossing and the map was approved, gravity gates being ordered for protection to the crossing.

A meeting was held on June 18 for the consideration of a map filed by the St. Joseph Valley Railway Company, showing extension of their line in the city of Benton Harbor, with crossings of the Cleveland, Cincinnati, Chicago & St. Louis and the Chicago & West Michigan Railways. An inspection of the location of these crossings was made by the board on June 28, another meeting held on July 27, and finally on August 7 the map was approved, and a first-class interlocking plant ordered at said crossings.

The Detroit & Mackinac Railway Company presented a map on September 1, showing route of line through Presque Isle county, and as there were no crossings involved in this line, the map was approved at this meeting.

On September 8, a map was considered showing change of route of the Mineral Range Railroad through Houghton county, with crossing of the Hancock & Calumet Railroad. This company having waived the right of notice and all objections to the proposed crossing, the map was approved with the understanding that a first-class interlocker be maintained at the crossing.

On October 21, a map was presented by the Grand Rapids, Kalkaska & Southeastern Railroad Company showing line through Kalkaska county, with crossing of the Grand Rapids & Indiana Railroad in the village of Kalkaska. This map was approved and a second-class interlocker ordered at the crossing.

Meetings were held on November 2 and 3 to consider maps filed by the Detroit & Lima Northern Railway, showing route of their line through Monroe and Wayne counties, with crossings of the Ann Arbor, Flint & Pere Marquette, Lake Shore & Michigan Southern, and the Michigan Central Railroads. An inspection of the location of these crossings was made on November 11, and on November 15 the maps were approved, first-class interlockers being ordered at the crossings of the Ann Arbor Railway, and the crossings of the Lake Shore & Michigan Southern and the Michigan Central Railroads, with second-class interlockers at all crossings of spur tracks, except where the Commissioner of Railroads should decide them to be unnecessary, the necessity for crossing of the Flint & Pere Marquette being obviated.

On November 19, the Grand Rapids, Kalkaska & Southeastern Railroad Company presented a map showing extension of their line in Kalkaska and Missaukee counties, and as there was no crossings shown on this map it was approved.

The Boyne City & Southeastern Railroad Company presented a map on November 19, showing extension of their line in Charlevoix county, with crossing of the Grand Rapids & Indiana Railroad. Action on this map was deferred until November 29 to allow the G. R. & I. Co. to file their objections to the proposed crossing. Map approved November 29 and second-class interlocker ordered.

On November 20, the Toledo & Northwestern Railroad Company presented a map showing route of their line through Calhoun and Eaton counties, with junctions with the Michigan Central and Grand Trunk Railroads. Action on this map was postponed until December 3 in order that the companies in interest might be properly notified. Map approved December 10.

# ARTICLES OF ASSOCIATION FILED BY RAIL-ROAD CORPORATIONS DURING THE YEAR 1897.

Detroit, Grand Rapids & Western Railroad Company. Capital stock, \$5,693,500.

This is a reorganization of the Detroit, Lansing & Northern Railway Company. Articles were filed on December 6, 1896, and January 1, 1897, this company began operating all the lines formerly owned and leased by the Detroit, Lansing & Northern and the Saginaw Valley & St. Louis Railroad Companies.

The Benton Harbor Electric Railway & Transit Company. Capital stock, \$650,000.

Proposed line from Benton Harbor to Allegan, 80 miles. Filed January 13.

Detroit & Cincinnati Railway Company, amendment to articles of association, changing name of company to Detroit & Lima Northern Railway Company. Filed February 20.

Detroit & Lima Northern Railway Company. Amendment to articles of association, increasing capital stock from \$500,000 to \$5,000,000. Filed April 10.

Toledo & Milwaukee Railroad Company. Capital stock, \$1,500,000.

Proposed line from State line between Ohio and Michigan, in Monroe county, to Allegan, being part of the Cincinnati, Jackson & Mackinaw Railroad. Filed June 21.

Milwaukee, Benton Harbor & Columbus Railway Company. Capital stock, \$600,000.

Proposed line from Benton Harbor to Nappanee, Indiana, being a consolidation of the St. Joseph Valley Railway Company and the Benton Harbor & Southeastern Railway Company. Filed August 10.

Toledo & Milwaukee Railroad Company. Amendment to articles of association changing name of company to Detroit, Toledo & Milwaukee Railroad Company. Filed September 7.

Grand Rapids, Kalkaska & Southeastern Railroad Company. Capital stock, \$250,000.

# 1.-TRACK MILEAGE.

ا يو		Road	owned.	Road operated.		
Road number.	Railroads.	Total miles.	Miles in Michigan.	Total miles.	Miles in Michigan.	
1 2 8 4 5	Ann Arbor Arcadia & Betsey River Au Sable & Northwesters Bay City Belt Line Boyne City & Southeastern	302.78 23. 108. 8.09	296.78 23. 108. 8.09	302.73 17.50 108.	296.78 17.50 108.	
6 8 9 10 12	Buchanan & St. Joseph	1.75 59.87 326.50 44.20 6,150.75	1.75 59.87 224. 44.20 152.08	59.37 835.27 44.20 6,150.75	59.87 224. 44.20 152.08	
18 14 15 16 16 16	Chicago & Northwestern	8,782.29 488.50 92.61 323.70 17.65	521.19 454.04 92.61 155.18 17.65	5,090.78 581.11 414.49	521.19 546.65 190.87	
17 18 19 20 23	Cincinnati, Saginaw & Mackinaw	53.00 1,804.74 189. 358.78 296.40	53.00 35.14 189. 358.78 296.40	53.00 1,804.74 189. 378.82 296.40	53.00 35.14 189. 378.82 296.40	
24 25 25 <del>1</del> 26 27	Duluth, South Shore & Atlantic	571.71 785.43 18.72 16.80 436.34	465.18 735.43 18. 16.30 380.13	588.33 783.66 16.30 584.79	475.03 778.01 16.90 442.98	
28 29 30 31 82	Muskegon, Grand Rapids & Indiana	86.85 26. 81.19 89.29 34.	36.85 26. 31.19 25.05 34.	31.42 39.29	31.42 25.05	
83 84 85 86 87	Lake Shore & Michigan Southern System.  Detroit & Chicago (L. S. & M. S.)  Detroit, Hillsdale & Southwestern.  Detroit, Monroe & Toledo (L. S. & M. S.)  Fort Wayne & Jackson.	1,117.51 65.20 97.83	407.54 65.20		575.27	
38 39 40 41 42	Kalamazoo, Allegan & Grand Rapids Kalamazoo & White Pigeon (L. S. & M. S.) Northern Central Michigan ""	58.42	58.42			
42 43 44 45 46 47	Sturgis, Goshen & St. Louis  Lima Northern  Lowell & Hastings  Manistee & Grand Rapids  Manistee & Northeastern and Supplementary  Manistique  Manistique & Northwestern (Not operated)	12.50 44.71 90.50	6.40 12.50 44.71 90.50 59.50 11.	87.07 12.50 44.71 90.50 59.50	12.50	
48 49 50 51 52	Mason & Oceana Michigan Air Line Railway Michigan Central System Battle Creek & Sturgis Bay City & Battle Creek	27. 105.60 270.07 33.80 18.	27. 105.60 221. 33.80 18.	27. 105.60 1,642.37	27. 105.60 1,186.55	
58 54 55 56 57	Canada Southern Bridge	3.66 149.90 4.84 83.79 822.90	3.66 149.90 4.84 83.79 322.90			
58 59 60 61 62	Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Saginaw Bay & Northwestern Toledo, Canada Southern & Detroit	89.50 115.16 14.68 83.01 58.92	39.50 109.10 14.68 83.01 47.27			

# 1.-TRACK MILEAGE.-CONTINUED.

			Tr	ack in l	Michigan	<b>).</b>			
Main.	Main second.	Sidings and	Retimated	Ga	uge.	Main track, 1895.	In-	De- crease,	Track in joint
		spurs.	track.	Feet.	Inches.	1895.	1896.	1896.	1180.
96.78		58.57	850.80	4	814 814	298.80	2.93		
28. 06.			23.00 106.	8	81/6	17.50	5.50		
8.09		4.71	12.80	1 1	814	108. 8.09			
16.			16.	- Ā	814 814	14.	2.		
1.75			1.75			1.75			ļ
59.87		26.53	85.90	4	8% 8% 8% 8%	59.87			
24.	20.11	65.04	309.15	4	836	224. 44.20			
14.20		4.09	48.19	, 4	81/6				
<b>52.0</b> 8		48.57	200.65	{ 4 8	079	<b>{ 152.08</b>			
21.19		174.54	695.73	2 3 4 4 8	81/6	\$ 521.19		İ	1
54.04		155.01	609.05		677-	448.66	5.88		
92.61			92.61	4	8% 8% 8% 8%	92.61	0.00		
55.18		19.22	174.40 18.91	4	8%	155.18			
17.65		1.26	18.91	4	81/2		17.65		
53.		82.64	85.64		814	53.			l
RE 14		8.21	48.85	I 4	874	33.40	1.74		
89. 88.78		69.14	258.14	4	8% 8% 8% 8%	189. 858.78			
96.40		112.05 <b>3</b> 0.	470.83 326.40	4	81/4	253.	43.40		
				i -	1				
85.18		109.02	574.20 918.24	4	834	464.71	.47		
85.48 18		177.81	913.24	1 1	81/4 81/4 81/4	752.08	18.00	16.65	
18. 16. <b>3</b> 0		13.12	18. 29.42	4	81/2	16.19	10.00		
80.18	8.10	117.29	500.52	4	9	383.21		3.08	
36.85		8.12	44.97	4	9	86.85			ŀ
26		4.32	30.82	4	9	26. 84.81			
31.19		11.75	42.94 30.56	8 4	814	84.81		3.12	
25.05 84.		5.51	30.36 84.	*	071	25.03 34.00			
			-		-				
07.54		103.17	510.71	4	81%	407.88	- <del></del>	.84	
85.20		4.29	69.49	4	81/4	65.20			
				l					
14.54		4.81	49.35	4	81/2	44.54			<i></i>
58.42		11.58	70.00	4	834	58.42			
	·}					<b></b>			
6.40			6.40	4	81/4		6.40		9.50
19 80		1 00	19 50	۸ ا	,   e1/	19 80			
12.50 44.71 90.50		1.00 18.52	13.50 58.23	4	814 814 814 814	12.50 31.28	13.48		
90.5Õ		21.00	111.50	. 4	814	90.48	.02		
59.50 11.		8.	67.50 11.	4	81/2	59.50	11.		
							1		
27.		10.	87. 115.07	8		27. 105. <b>60</b>			
05.60 21.		9.47 190.59	115.07 411.59	4	81/3 81/3 81/4 81/4	105.60 221.		- <del></del>	
3.80		4.01 2.41	87.81	4 8	84	33.80			
18.		2.41	20.41	8	836	18.			
3.66		1.75	5.41	4	814	3.66			
<b>19.90</b>		68.55	218.45	i	81/4 81/4	149.90			
4.84		.32	5.16	4	814	4.84			
83.79 22.90		.32 16.78 284.23	100.57 557.13	1	814	83.79 322.90			
				i -	1	i			
89.50		5.13	44.63	4	81/2 81/2 81/3 81/3	39.50			
09.10 14.68		22.29 .92	131.39 15.60	4	814	109.10 14.68			
83.01		10.57	93.58	4	814	82.79	.22		
17.27		40.55	87.82	4		47.27			

# ANNUAL REPORT OF THE

## 1.-TRACK MILEAGE.-CONTINUED.

ber.		Road	owned.	Road operated.	
Road number.	Railroads.	Total miles.	Miles in Michigan.	Total miles.	Miles in Michigan.
63 64 65 66 67	Midland & Hubbard		10. 17.40 198.89 25.49	10. 17.40 1,188.71 25.49	10. 17.40 199.23 25.49
68 69 72 73	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Sault Ste. Marie Bridge Co. South Haven & Eastern	100.59 66.57 1.22 36.60	100.59 66.57 .36 36.60	100.59 66.57 36.60	100.59 66.57 86.60
74 75 76 77	St. Clair Tunnel. St. Joseph Valley (Not operated). Superior Terminal (Iucluded in D. S. S. & A.). Toledo, Saginaw & Muskegon.	2.25 10. 8. 96.	1.121/2 10. 8. 96.	2.25 96.	1.12½ 96.
78 79 80 81	Wisconsin & Michigan. Wabash. Detroit Union R. B. Depot & Station Co The Fort St. Union Depot Co	68.55 1,594. 8.34 1.41	30.73 75.90 3.34 1.41	72.07 1,979.60	
	ORE AND FOREST ROADS.				
1 2 3	Bear Lake & Eastern Crawford & Manistee River. Dead River (Operated by D. S. S. & A.)	18. 10. 2.98	18. 10. 2. <b>9</b> 8	18. 10.	18. 10.
4	Hecla & Torch Lake	7,50	7.50	7.50	7.50
5 6 7 8	Lake Superior & Ishpeming. Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake.	10. <b>63</b> .	20.50 10. 63. 6.	20.50 10. 63. 6.	20.50 10. 63. 6.
	Total	22,703.52	7,759.081/4	25,045.14	7,765.721/2

# COMMISSIONER OF RAILROADS.

# 1.—TRACK MILEAGE,—Concluded.

			Tr	ack in l	dichigan	ı <b>.</b>			
<b>N</b>	Main	Sidings and	<b>Estimated</b>	Gar	oge.	Main	In-	De- crease.	Track
Main.	second.	spurs.	as single track.	Feet.	Inches.	track, 1895.	1896.	1896.	in joint use.
10.			10.	4	81/4	10.			
17.40 98.89 25.49	·	4.37 35.50 8.67	21.77 284.39 34.16	8 4 4	81/4 81/4	19.85 198.89 7.02	18.47	2.45	
100.59 66.57 .36 36.60		7.61 15.76 1.20	108.20 82.38 .36 37.80	4 4 3	8½ 8½ 8½	100.20 66.57 .36 36.60	.39		
1.12½ 10. 8. 96.		.50	11.121/2 10.50 8. 106.07	4	814 814 814 814	1.12½ 10. 8. 96.			
30.73 75.90 3.34 1.41		3.55 88.50 3.50 1.27	84.28 114.40 6.84 2.68	4	814 814 814 815	29.28 75.90 3.34 1.41	1.45		
18. 10. 2.98 7.50		3. .17	18. 13. 8.15 7.50	3 8 4 4	81 <u>/4</u>	18. 13. 2.98 7.50		8.00	
20.50 10. 63. 6.		6.35 3.	26.85 13. 63. 7.88	4 3 8 3	81/4	68. 6.	20.50 10.		
759.08%	23.21	2,165.86	9,938.151/2			7,608.611/4	179.11	28.64	9.50

# 2.-CAPITAL STOUK.

ROUGE NO.	Railroads	Par value of shares.	Number of shares issued.
1 2	Ann Arbor	\$100 00 100 00	72,500 1,400
845	Au Sable & Northwestern	100 00 100 00 100 00	1,000 500
7			300
8	Chicago, Detroit & C. G. T. Junction	100 00 100 00	10,950
9	Chicago & Grand Trunk	100 00 100 00	66,000
2	Central Michigan. Chicago, Detroit & C. G. T. Junction. Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw. Chicago, Milwaukee & St. Paul	100 00	4,500 783,131.6
8		100 00	663,838
4	Chicago & West Michigan.	100 00	74,482
6	Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw	100 00	162,808
7		100 00	15,000
8	Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Nystem Grand Rapids, Lansing & Detroit Saginaw & Western	100 00	379,878.3
9012	Detroit, Grand Haven & Milwaukee	50 00 100 00	30,000 43,356
ĭ	Grand Rapids, Lansing & Detroit	100 00	280
Z	Saginaw & Western	100 00	45
3	Detroit & Mackinac Duluth, South Shore & Atlantic	100 00	20,450
5 6 7	Flint & Pere Marquette.	100 00 100 00	220,000 96,402
6	Flint & Pere Marquette. Gogebic & Montreal River (Operated by Wisconsin Central) Grand Rapids & Indiana System	100 00 100 00	6,000 55,697
1			-
890	Muskegon, Grand Rapids & Indiana Traverse City	100 00 100 00	200 2,030
Ŏ	Hancock & Calumet	100 00	3,500
2	Hancock & Calumet Indiana & Lake Michigan (Operated by Terre Haute & Indiana) Iron Range & Huron Bay	100 00 100 00	8,000 7,640
8		100 00	500,000
3	Lake Shore & Michigan Southern System  Detroit & Chicago  Detroit, Hillsdale & Southwestern	100 00	10,000
5	Detroit, Hillsdale & Southwestern	100 00 100 00	13,500 4,141
7	Detroit, Monroe & Toledo	100 00	4,141 27,275
8	Kalamazoo, Allegan & Grand Bapids Kalamazoo & White Pigeon	100 00	6,100
9	Kalamazoo & White Pigeon	100 00 100 00	2,309 6,000
L	Northern Central Michigan. Sturgis, Goshen & St. Louis. Lima Northern	100 00	8,000
2		100 00	24,000
8	Lowell & Hastings	100 00 100 00	1,896
5	Manistee & Grand Rapids. Manistee & Northeastern & Supplementary	100 00	20,000
8	Manistique Manistique & Northwestern	100 00 100 00	1,500 1,050
			-
8	Masoa & Oceana Michigan Air Line Railway	100 00 100 00	1,500 3,000
0	MICHIRAN CONTRAL SYNTOIN.	100 00	187.380
5	Battle Creek & Sturgis Bay City & Battle Creek.	100 00 100 00	5,000 3,000
8	Canada Southern Bridge Detroit & Bay City	100 00 100 00	4,500 20,000
8	Detroit & Bay City Detroit, Delray & Dearborn	100 00	35 4,912
7	Hand River Valley  Jackson, Lansing & Saginaw	100 00 100 00	20,000
8	Kalamazoo & South Haven	100 00	3,254
•	Kalamazoo & South Haven	50 00	7.855.2
ו	Saginaw Bay & Northwestern	100 00 100 00	8,000 200
2	Toledo, Canada Southern & Detroit	100 00	15,476.0

# 2.—CAPITAL STOCK.—CONTINUED.

8. g	olders.	Stockho			aid in.	Amount p		
n 3	No.in Mich.	Whole No.	Amount held in Michigan	Per mile of road.	Total.	On shares not issued.	On preferred.	On common.
B 7	3 7	740	\$259,600 00 140,000 00	\$24,263 72 6,829 27 884 25	\$7,250,000 00 140,000 00		\$4,000,000 00	\$3,250,000 00 140,000 00
8 7 8 8 7	8 8 7	8 9 7	41,500 00 51,750 00 50,000 00	384 25 12,360 94 3,125 00	41,500 00 100,000 00 50,000 00	\$41,500 00		100,000 00 50,000 00
8 2 8	18 2 18 7	18 8 265	180,000 00 200 00 169,800 00	16,489 55 20,214 40	688,000 00 978,984 67 6,600,000 00			688,000 00 978,984 67 6,600,000 00
7   1	14	4,766	449,900 00 58,100 00	10,181 00 11,919 89	450,000 00 78,318,161 00		27,285,900 00	450,000 00 46,027,281 00
- / 4	18 6	5,247 645	167,500 00 7,100 00	13,354 86 12,926 55	66,388,820 58 7,511,800 00	68,600 00	22,853,454 56	44,030,365 97 7,448,200 00
9   1	9 8	259 11	17,000 00 676,500 00	50,079 46 28,801 89	16,280,885 00 1,500,000 00		5,867,000 00	10,413,885 00 1,500,000 00
8 1	6	2,642 11	17,800 00 800 00	21,286 85 7,986 51	38,416,382 45 1,500,000 00	428,997 45	10,000,000 00	27,967,885 00 1,500,000 00
6 1 6 1 2 2 1 2 1 2	6 2 1 1	471 8 9	10,600 00 100 00 100 00	19,567 63 504 14 105 71	4,835,600 00 28,000 00 4,500 00		2,510,000 00	1,825,600 00 28,000 00 4,500 00
5 2	1 15 14	310 1,566	994,000 00 58,200 00	6,899 46 38,481 05 13,583 08 36,809 82 12,813 04	2,045,000 00 22,000,000 00 10,000,000 00 600,000 00 5,569,700 00	<b>359,800 00</b>	45,000 00 10,000,000 00 6,842,000 00	2,000,000 00 12,000,000 00 8,295,200 00 600,000 00 5,569,700 00
	8	184 8	167,000 00	27 14	1,000 00			1,000 00
0   8	72 10	73 12 6 10	85,400 00 100,600 00 814,000 00	7,884 62 11,221 55 20,361 41 28,941 00	205,000 00 350,000 00 800,000 00 814,000 00	50,000 00		203,000 00 850,000 00 800,000 00 764,000 00
7 8 1 8 3 8	27 1 3 1 12	3,872 10 336 13 407	257,750 00 100 00 1,700 00 100 00 114,800 00	58,511 01 16,049 00 20,705 52 6,640 47	50,000,000 00 1,000,000 00 1,850,000 00 414,100 00 2,727,548 00		588,500 00	49,466,500 00 1,000,000 00 1,850,000 00 414,100 00 2,727,548 00
9 8	9 4 3	99 8 10	3,000 00 400 00 300 00	10,441 <b>6</b> 3 6,813 <b>6</b> 4 9,977 12	610,000 00 290,900 00 600,000 00			610,000 00 230,900 00 600,000 00
4		8						
8 4	7 8 7 7 5	7 8 7 9	190,120 00 5,000 00 525,765 97 114,800 00 740 00	15,209 60 10,067 10 5,809 57 2,521 01	190,120 00 450,000 00 525,765 97 150,000 00 105,000 00	445,000 00		190,120 00 5,000 00 525,765 97 150,000 00 105,000 00
3   4	5 3 28	7 7 1,485	150,000 00 1,500 00 116,900 00	5,555 55 2,840 91 69,382 77 12,195 12 16,666 66	150,000 00 300,000 00 18,738,000 00 500,000 00 300,000 00			150,000 00 300,000 00 18,788,000 00 500,000 00 300,000 00
3 5 3 5 7 5	3 3 7 20	16 7 7 45	6,000 00 300 00 3,500 00 144,700 00	22,950 82 13,342 25	450,000 00 2,000,000 00 3,500 00 491,200 00			450,000 00 2,000,000 00 3,500 00 491,200 00
1	20 28 124	57 199	1,461,300 00 825,100 00	5,862 27 6,773 36 8,237 97	2,000,000 00 325,400 00			2,000,000 00 825,400 00
4 6	4	28	11,200 00	20,435 96	800.000 00			800,000 00
I 6	2	17	1,000 00	240 93 26,287 18	20,000 00 1,547,662 79			20,000 00 1,547,662 50

# ANNUAL REPORT OF THE

# 2.—CAPITAL STOCK.—CONTINUED.

Road No.	Railroads.	Par value of shares.	Number of shares issued.
63	Midland & Hubbard	\$100 00	
64	Midland & Northern	100 00	25
65	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie	100 00	8,934
66	Minneapolis, St. Paul & Sault Ste. Marie	100 00	210,000
67	Munising	100 00	8,700
68	Pontiac, Oxford & Northern	100 00	10,000
69	Saginaw, Tuscola & Huren	100 00	1,233
70	Saginaw Valley & St. Louis System	100 00	2,553
71	Saginaw & Grand Rapids	100 00	700
72	Sault Ste. Marie Bridge Co	100 00	10,000
78	South Haven & Eastern	100 00	2,185
74	St. Clair Tunnel	100 00	7,000
75	St. Joseph Valley	100 00	8,000
76	Superior Terminal.	100 00	610
77	Toledo, Saginaw & Muskegon	100 00	16,000
78	Wisconsin & Michigan	100 00	9.515
79	Wabash	100 00	520,000
8Õ	Detroit Union R. R. Depot & Station Co.	100 00	22,500
81	The Fort Street Union Depot Co	100 00	10,000
	ORE AND FOREST ROADS.		
1	Bear Lake & Eastern	100 00	1,046
2	Crawford & Manistee River	100 00	500
3	Dead River	100 00	
4	Hecla & Torch Lake	100 00	1,000
5	Lake Superior & Ishpeming	100 00	10,000
ĕ	Lewiston & Southeastern	100 00	600
7	Manistee & Luther	100 00	8,000
8	Quincy & Torch Lake	100 00	500
_	Total		4,434,187.8

# COMMISSIONER OF RAILROADS.

# 2.—CAPITAL STOCK.—CONCLUDED.

		Amount p	aid in.			Stockho	olders.	No.
On common.	On preferred.	On shares not issued.	Total.	Per mile of road.	Amount held in Michigan.	Whole No.	No.in Mich.	Road N
\$12,000 00 2,500 00 393,400 00 14,000,000 00 570,000 00	<b>\$7,000,000</b> 00		\$12,000 00 2,500 00 393,400 00 21,000,000 00 870,000 00	\$1,200 00 250 00 22,609 20 17,945 21 10,000 00	\$12,000 00 2,500 00 10,000 00	7 7 20 87 10	7 7 10 2	66 64 64 66
1,000,000 00 123,300 00 255,300 00 70,000 00 1,000,000 00		\$255 88 9,504 01	1,000,000 00 123,555 88 264,804 01 70,000 00 1,000,000 00	10,000 00 1,856 02 7,459 27 19,444 44	2,000 00 60,800 00 25,200 00 100 00 100 00	8 123 84 24 12	2 118 66 1 1	68 70 71 71
218,500 00 850,000 00 800,000 00 1,600,000 00	61,000 00	200 00	218,500 00 850,000 00 300,000 00 61,200 00 1,600,000 00	5,969 95 155,655 00 30,000 00 16,666 67	7,500 00 400 00 500 00	8 8 7 10 9	2 2 2 7 5	7: 7: 7: 7:
951,500 00 28,000,000 00 2,250,000 00 1,000,000 00	24,000,000 00		951,500 00 52,000,000 00 2,250,000 00 1,000,000 00	32,622 00	2,058,500 00 276,000 00	17 15	15 7	7: 7: 8:
104,664 00 50,000 00 1,000 00 100,000 00	51,010 96		104,664 00 50,000 00 52,010 96 100,000 00	5,814 66 5,000 00 17,458 84 18,338 38	104,664 00 50,000 00 200 00	7 7 7 5	7 7 5 8	
1,000,000 00 60,000 00 800,000 00 50,000 00			1,000,000 00 60,000 00 800,000 00 50,000 00	48,780 49 6,000 00 4,761 90 8,333 34	125,100 00 60,000 00 800,000 00 600 90	10 8 7 7	2 8 7 6	
\$815,462,842 11	\$120,048,865 52	\$1,398,856 84	£496,910,564 76	\$18,815 67	\$11,148,289 97	24,509	902	

# 8.-INDEBTEDNESS.

		1	<del>,                                    </del>	1
Boad No.	Railroads.	Funded.	Unfunded.	Total.
1 2 3 4	Ann Arbor. Aroadia & Betsey River. Au Sable & Northwestern Bay City Belt Line Boyne City & Southeastern.	\$7,000,000 00	\$381,826 08 385 96 145,294 23 18,840 28 49,781 68	\$7,881,886 08 385 96 145,294 28 18,840 28 49,781 68
5		1	l .	ŀ
7 8 9 10 11	Central Michigan Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamasoo & Saginaw Chicago & Kalamasoo Terminal	50,000 00 1,786,141 46 12,000,000 00	16,500 00 5,293,122 14 529,175 89	66,500 00 1,786,141 46 17,298,122 14 529,175 89
12 13 14	Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan Chicago & North Michigan Cincinnati, Jackson & Mackinaw		6,096,008 64 5,886,470 22 458,620 30	144,676,008 64 137,194,970 22 8,645,695 30
15 16	Chicago & North Michigan	178,322 60	247,668 88	420,991 48
17 18 19 20 28	Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lausing & Northern System Detroit & Mackinac		279,924 51 4,594,561 36 1,975,976 11 7,103,441 68 191,355 69	2,004,924 51 59,611,291 36 7,401,976 11 7,108,441 68 3,091,355 69
1				l .
24 25 26 27 28	Duluth, South Shore & Atlantic	23,678,451 24 10,389,000 00 520,000 00 9,337,000 00 750,000 00	3,889,501 63 1,589,482 48 889,417 89 99,075 00	27,567,952 87 11,978,482 48 520,000 00 10,176,417 89 849,075 00
29	Traverse City	440,000 00	12,038 63	452,058 68 400,000 00
29 80 81 82 33	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.) Iron Range & Huron Bay Lake Shore & Michigan Southern System	440,000 00 400,000 00 480,000 00 426,149 64 44,516,000 00	271,893 87 26,264 24	400,000 00 751,893 87 452,413 88 44,516,000 00
36 38 39 40	Detroit, Monroe & Toledo		924,000 00 400,000 00 1,525,000 00	924,000 00 840,000 00 400,000 00 1,525,000 00
41				1,525,000 00 322,000 00
42 43 44 45	Lima Northern Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern & Supplementary. Manistee	1,200,000 00	88,905 00	1,200,000 00 38,905 00
45 46	Manistee & Northeastern & Supplementary Manistique		1,527,434 28 88,493 38	1,527,434 28 88,493 38
47 48 49 50 51	Manistique & Northwestern Mason & Oceana Michigan Air Line Railway Michigan Central System Battle Creek & Sturgis	1,508,666 67 10,000,000 00 500,000 00	1,619 91 50,000 00 47,463 68 2,522,833 98	1,619 91 50,000 00 1,556,190 35 12,522,833 98 500,000 00
52 58 54	Bay City & Battle Creek	250,000 00	1,702,478 89	250,000 00 2,702,478 89
55 56	Detroit & Bay City Detroit, Delray & Dearborn. Grand River Valley.	1,500,000 00	42,751 98	42,751 98 1,500,000 00
57 58 59 60 62	Jackson, Lansing & Saginaw Kalamazoo & South Haven Michigan Air Line R. R. Michigan Midland & Canada Toledo, Canada Southern & Detroit	2,600,000 00 323,635 00 1,511,737 50	605,350 72 2,467,780 00	• 2,600,000 00 928,985 72 3,979,517 50
63 64 65 66 67	Midland & Hubbard Midland & Northern Mineral Range Minneapolie, St. Paul & Sault Ste. Marie Munising		3,586 25 8,547 29 293,697 85 2,821,380 04 398,881 38	3,586 25 8,547 29 906,997 85 82,575,338 14 400,881 38

# COMMISSIONER OF RAILROADS.

# 3.—INDEBTEDNESS.—CONTINUED.

Miles of road covered by indebt- edness.	Debt per mile of road.	Indebtedness previous report.	Increase during 1896.	Decrease during 1896.	Total interest on indebtedness.	Boad No.
298.80 20.50 103. 8.09 16.	\$24,587 55 16 88 1,345 81 2,267 08 3,111 35	\$7,409,907 94 5,152 13 183,986 94 18,171 52 49,984 45	\$11,307 29 168 76	\$78,081 91 4,816 17	\$280,000 CO	
156. 59.87 826.5 44.20	428 84 30,084 92 52,965 15 11,972 27	64,000 00 1,786,141 46 17,076,068 67	2,500 00 217,058 47 529,175 39	208 88	2,500 00 61,700 00 66J,0LO 00	10
6,150.75 5,030.78 581.11 841.35	28,521 69 27,587 47 14,877 79 1,288 81	145,274,876 23 188,723,878 89 8,527,689 41 192,606 56	118,005 89 228,384 87	598,867 59 1,528,908 67	7,575,515 26 6,390,319 49 409,860 58 15,658 45	11 11 11 11 11
53. 1,804.74 189.	87,828 76 33,030 40 39,163 89 10,429 61	1,961,710 68 58,136,090 85 7,348,248 85 7,037,069 08 8,223,453 01	43,218 88 1,475,200 51 53,727 26 66,372 60	192,097 82	86,250 00 2,642,972 11 351,509 88	11 11 22 2
571.71 738.93 16.30 434.69 36.85	48,220 17 16,210 57 31,901 84 23,410 74 28,041 44	26,667,692 41 11,463,855 24 520,000 00 17,176,474 89 830,550 00	900,280 46 514,627 24 18,525 00	7,000,087 00	861,954 81 613,323 30 25,000 00 506,829 30 37,500 00	2 2 2 2 2 2
26. 81.19 39.29 84. 1,117.51	17,386 68 12,824 62 19,137 01 13,306 29 39,834 99	448,357 86 400,000 00 742,478 59 429,952 08 44,766,000 00	3,695 77 9,414 78 22,461 80	250,000 00	7,500 00 16,250 00 3,117,745 00	3 3 3
58.42	10,441 63	840,000 00 1,525,000 00 322,000 00	924,000 CO 400,000 OO		42,000 co	3 4 4
12.50 90.50 59.50	3,112 40 16,877 78 1,487 28	38,903 00 8 38 1,521,310 13 125,171 42	1,200,000 00 	8 38 36,678 04	74,517 95 5,414 56	4 4 4 4 4
27. 105.60 270.07	1,851 85 14,736 08 46,368 85 12,195 12	50,000 00 1,556,190 35 12,847,676 89 500,000 00	1,619 91 175,157 59		75,488 34 660,00 00 15,000 00	44 55 5
18. 149.90 4.84 83.79	23,855 90 8,833 05 17,901 77	259,000 00 2,611,917 79 8,576,000 00 41,816 98 1,500,000 00	90,581 10 985 00	8,576,000 00	7,500 00 70,000 00 178,600 00	5 5 5 5
39.50 115.16 14.68 58.92	17,721 50 22,577 28 63,282 40 67,541 03	2,034,000 00 700,000 00 2,600,000 00 897,617 92 8,874,517 50	31,367 80 105,000 00	2,054,000 00 703,000 00	85,00) 00 104,000 00 22,610 00 105,00J 00	5 6
} 10. 17.40 1,170.21 25.49	858 62 854 72 52,126 81 27,837 19 15,727 01	3,151 95 7,613 80 644,331 89 32,640,937 35	434 30 933 49 262,665 96 400,881 38	65,579 21	25,253 38 1,196,275 31 120 00	6 6 6

# ANNUAL REPORT OF THE

# 8.—INDEBTEDNESS.—CONTINUED.

Road No.	Railroads.	Funded.	Unfunded.	Total.
68 69 72 78 74	Pontisc, Oxford & Northern Saginaw, Tuscols & Huron Sault Ste. Marie Bridge Co. South Haven & Eastern St. Clair Tunnel	900,000 00 216,000 00 2,500,000 00	\$24,221 17 1,262,335 22 8,577 00 12,721 99	\$160,221 17 1,262,835 22 900,000 00 224,577 00 2,512,721 99
75 77 78 79 81	St. Joseph Valley	81,534,000 00	63,546 49 691,003 54 847,042 56 810,694 40	112,546 49 2,340,003 54 1,298,042 56 81,534,000 00 1,310,694 40
14578	Bear Lake & Eastern Hedla & Torch Lake Lake Superior & Ishpeming Manistee & Luther Quincy & Torch Lake	1,200,000 00	8,691 71 690,282 84 209,454 46 881 09 65,921 22	8,691 71 690,282 84 1,409,454 46 381 09 165,921 22
	Total	\$602,026,687 21	\$54,884,169 61	<b>\$656,380,856</b> 82

# COMMISSIONER OF RAILROADS.

# 3.—INDEBTEDNESS.—Concluded.

Miles of road covered by indebt- edness.	Debt per mile of roa		Indebtedness previous report	Increase during 1896.	Decrease during 1896.	Total interest on indebtedness.	Boad No.
100. 66.57 36.60 2.25	\$1,602 18,962 6,185 1,116,765	52 96	\$87,795 80 1,187,196 50 900,000 00 220,900 00 2,529,792 07	75.188 72	\$17,150 08	\$5,256 68 · 68,548 08 45,000 00 7,007 38 125,000 00	6 6 7 7
10. 96. 63.55 1,695.2	11,254 24,375 20,425 48,100	04 53	110,046 49 2,309,968 35 911,096 40 84,890,805 44 1,308,694 40	2,500 00 30,085 19 386,946 16 2,000 00	8,856,805 44	2,500 00 82,450 00 49,025 00 2,729,545 00 45,000 00	71 71 71 71 81
18. 7.5 20.5 63. 6.	482 92,037 68,753 6 27,653	70 88 09	10,518 41 586,230 12 631 52 165,798 22	104,052 72 1,409,454 46 128 00	1,821 70	42,608 29	
23,088.71	\$28,427	77	\$665,862,167 09	\$9,900,218 27	\$19,401,528 54	\$29,759,908 09	

# 4.-COST OF PROPERTY COMPARED WITH STOCK AND DEBT.

_		<del></del>		
Road number.	Railroads.	Total reported cost of property.	Cost per mile of road.	Proportion of cost for Michigan.
1 2 8 4 5	Ann Arbor Aroadia & Betsey Biver Au Sable & Northwestern Bay City Belt Line. Boyne City & Southeastern	\$14,836,867 88 138,119 72 243,796 08 113,059 37 85,282 62	\$47,358 59 5,418 59 2,257 37 18,975 20 5,830 16	\$14,052,715 84 138,119 72 243,796 08 113,059 37 85,282 62
6 7 8 9 10	Buchanan & St. Joseph Central Michigan Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw	5,000 00 2,765,126 13 19,560,204 49 902,514 40	46,574 46 59,908 74 20,418 87	5,000 00 2,765,126 18 18,419,558 50 902,514 40
11 12 18 14 15	Chicago & Kalamazoo Terminal Chicago, Miswaukoe & St. Paul Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan	4,208 83 212,458,124 01 174,808,916 91 12,610,945 73 1,809,880 04	34,541 01 35,167 44 25,815 60 19,542 88	4,208 88 5,811,328 10 18,828,919 40 11,721,160 18 1,809,880 04
15 <del>1</del> 16 17 18 19 20	Jackson & Cincinnati. Cincinnati, Jackson & Mackinaw. Cincinnati, Saginaw & Mackinaw. Cieveland, Cincinnati, Chicago & St. Louis. Detroit, Grand Haven & Miwaukee. Detroit, Lansing & Northern System.	20,152,421 88 3,228,827 58 85,861,368 27 7,065,492 33 7,760,409 93	60,921 28 47,575 47 37,383 56 35,024 64	9,636,989 91 8,228,827 58 1,671,720 84 7,085,492 33 7,760,409 93
21 22 28 24 25 26	Grand Rapids, Lansing & Detroit	1,303,636 27 568,586 65 4,978,152 65 44,856,063 58 21,405,784 05 1,120,000 00	28,472 02 13,356 51 16,795 39 78,459 47 28,978 82 68,711 66	1,303,636 27 568,586 65 4,978,152 65 36,497,776 24 21,405,784 05 1,120,000 00
27 28 29 30 81 32	Grand Rapids & Indiana System		34,637 79 20,270 78 24,856 47 27,907 53 36,422 46 34,937 53	13,877,612 52 746,978 21 646,288 15 870,435 74 908,709 41 1,187,875 95
33 34 35 36 37 38	Lake Shore & Michigan Southern System Detroit & Chicago Detroit, Hillsdale & Southwestern Detroit, Monroe & Toledo Fort Wayne & Jackson Kalamazoo, Allegan & Grand Rapids	1,450,000 00	98,298 50 76,576 29 20,639 82 22,155 22 24,820 00	18,312,517 66 4,789,416 54 1,345,716 25 1,196,381 88 1,238,168 79 1,450,000 00
39 40 41 42 43 44	Kalamazoo & White Pigeon Northern Central Michigan Sturgis, Goshen & St. Louis Lima Northern Lowell & Hastings Manistee & Grand Rapids	610,000 00 1,857,000 00 228,025 00 504,470 11	16,680 00 22,193 00 18,822 00 11,283 16	610,000 00 1,387,000 00 228,025 00
45 46 47 48 49 50	Manistee & Grand Rapids  Manistee & Northeastern and Supplementary  Manistique & Northwestern  Mason & Oceana  Michigan Air Line Railway  Michigan Central System	1,774,977 19 471,222 83	19,613 00 7,919 71 7,222 22	195,000 00
50 51 52 58 54 55 56	Battle Creek & Sturgis Bay City & Battle Creek Canada Southern Bridge Detroit & Bay City Detroit Delray & Dearborn Grand River Valley	1,009,602 34 557,502 84 1,780,977 05 3,744,297 78 46,251 98 2,867,053 00	17,216 83 115,215 58 24,620 54 30,972 35 486,605 75 84,378 88 9,556 19 84,229 17	1,818,007 33 25,462,632 18 1,009,602 34 557,502 34 1,780,977 05 3,744,297 78 46,251 98 2,867,053 00
57 58 59 60 61 62	Jackson, Lansing & Saginaw.  Kalamasoo & South Haven.  Michigan Air Line R R.  Michigan Midland & Canada.  Saginaw Bay & Northwestern.  Toledo, Canada Southern & Detroit.	8,309,530 16 1,141,010 24 8,154,287 15 586,342 02 402,285 15 3,123,885 77	28,164 84 28,522 75 27,390 90 39,941 56 13,871 21 53,019 10	8,309,530 16 1,141,010 24 2,987,881 73 586,342 02 402,265 15 2,506,212 86

# 4.-COST OF PROPERTY COMPARED WITH STOCK AND DEBT.-CONTINUED.

Proportion of cost for Michigan previous year.	Increased cost, 1898.	Decreased coat, 1896.	Total stock and debt.	Stock and debt per mile of road.	Excess of stock and debt over reported cost per mile of road.	Excess of reported cost over stock and debt per mile of road.	quan	
\$14,169,008 95 129,507 01 288,225 15 112,890 61 78,226 56	\$14,612 71 5,570 98 188 76 7,056 06	\$116,288 11	\$14,581,826 03 140,835 96 186,794 23 118,340 28 99,781 68	\$48,801 30 6,845 65 1,729 58 14,627 98 6,236 35	\$1,442 71 1,482 06 652 78 906 19	\$527 79	1 2 3 4 5	
5,000 00 2,765,126 13 18,879,424 95	40,138 45 902,514 40		704,500 00 2,765,126 18 23,893,122 14 979,175 89	4,591 92 46,574 47 78,179 55 22,158 27	13,2:0 81 1,784 40		6 7 8 9 10	
4,203 88 5,283,342 56 19,289,938 80 11,661,557 26 1,809,519 04	27,985 54 59,602 87 861 00	961,033 90	217,989,169 64 208,578,790 75 16,157,495 80	84,449 97 40,942 88 27,204 84	5,774 89 1,988 74	91 04	11 12 18 14 14	
9,636,989 91 3,218,419 26 1,579,563 00 7,057,267 22 7,760,409 98	10,408 32 92,157 84 8,225 11		480,000 00 16,701,826 43 8,504,924 51 98,027,623 81 8,901,976 11 8,943,074 60	26,082 32 107,753 71 66,130 65 54,317 09 47,100 40 40,357 78	5,209 87 6,741 56 9,716 84 5,333 14		151 16 17 18 19 20	
1,308,636 27 568,586 65 4,469,198 97 36,818,843 94 21,878,894 97 1,120,000 00	508,958 68 178,932 30 26,889 08		1,303,636 27 570,500 00 5,136,355 69 49,567,952 87 21,978,482 48 1,120,000 00	23,472 02 13,401 46 17,329 07 86,701 22 29,743 66 68,711 66	44 95 533 68 8,241 75 764 84		21 22 28 24 25 26	
15,276,450 57 746,978 21 646,268 15 849,878 06 1,066,449 62 1,187,875 95	20,562 68	1,898,888 05	15,746,117 89 850,075 00 657,053 63 750,000 00 1,551,893 37 1,296,413 88	36,223 78 23,068 52 25,271 30 24,046 17 39,493 43 37,247 46	1,585 99 2,797 74 414 83 8,075 96 2,309 98	8,861 86	27 28 29 30 81 32	
18,312,517 66 4,818,712 07 1,345,716 25 1,196,381 88 1,238,168 79 1,450,000 00		29,293 53	94,516,000 00 1,000,000 00 1,350,000 00 1,388,100 00 2,727,548 00 1,450,000 00	98,346 00 16,048 50 20,705 52 21,457 66	47 50 65 70	•	33 34 35 36 37 38	
610,000 00 1,357,000 00 228,025 00 438,818 a9	65,651 72		680,900 00 2,125,000 00 322,000 00 1,200,000 00 228,025 00 450,000 00	17,251 56 24,942 75 11,386 00 18,322 00 10,067 10	571 56 2,747 75	1,216 06	39 40 41 42 43 44	
1,768,959 24 470,908 15 195,000 00 1,818,097 83 25,462,682 18	6,017 95 814 63		2,053,200 25 238,493 38 106,619 µ1 200,000 00 1,856,130 35 81,260,833 98	22,687 29 4,008 29 7,407 50 17,576 99 115,750 86	8,074 29 185 28 360 16 535 33		45 46 47 48 49	
1,009,271 75 550,330 59 1,780,977 05 3,744,297 78 45,816 98	330 59 7,171 75 935 00		81,260,883 98 1,000,000 00 550,000 00 8,152,478 89 2,000,000 00 46,251 98 1,991,200 00	24,890 24 80,555 54 861,333 03 13,842 23 9,556 19 28,762 27	535 83 374,727 28	21,096 66	50 51 52 58 54 55	
2,867,053 00 8,195,811 64 1,141,010 24 2,987,881 73 586,342 02 225,526 15 2,506,212 86	113,718 52		2,000,000 00 2,000,000 00 225,400 00 2,800,000 00 1,228,985 72 20,000 00 5,527,150 00	25, 647 50 28, 858 21 88, 718 37 240 93 93, 808 21	43,776 81	10,466 90 2,875 25 8,587 09 18,620 28	56 57 58 59 60 61 62	

# 4.-COST OF PROPERTY COMPARED WITH STOCK AND DEBT.-CONTINUED.

Road number.	Railroads.	Total reported cost of property.	Cost per mile of road.	Proportion of cost for Michigan.
63 64 65 66	Midland & Hubbard Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie	779.266 91	\$1,558 62 867 55 44,785 45 43,422 53	\$15,586 25 8,675 49 779,266 91 8,713,952 31
67 68 69 70 71	Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System. Saginaw & Grand Rapids.	1,013,185 28 980,462 76 690,053 16	16,650 56 10,131 85 14,728 29 19,438 12 17,444 44	424,422 88 1,013,185 28 950,462 76 690,053 16 70,000 00
72 78 74 75 76	Sault Ste. Marie Bridge Co South Haven & Eastern St. Clair Tunel. St. Joseph Valley Superior Terminal	439,558 19 3,228,170 61	1,557,376 23 12,009 79 1,432,520 27 41,254 64	560,455 44 489,558 19 1,611,585 30 412,546 49
77 78 79 80 81	Toledo, Saginaw & Muskegon. Wisconsin & Michigan. Wabash Detroit Union R. R. Depot & Station Co. The Fort St. Union Depot Co.	2,024,560 00 133,433,500 00 2,364,558 38	83,847 56 31,826 28 80,772 33	3,249,365 50 979,077 22 6,138,697 08 2,364,558 36 2,308,649 83
1 2 3 4	ORE AND FOREST ROADS.  Bear Lake & Eastern	57,184 76 51.010 96	6,971 77 5,718 47 17,117 77 105,363 77	125,491 92 57,184 76 51,010 96 790,282 84
5 6 7 8	Lake Superior & Ishpeming. Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	24,781 82 365,633 89	108,001 79 2,478 18 5,803 71 38,152 29	2,214,036 60 24,781 82 365,633 89 228,913 73
_	Total	\$1,026,961,967 64	\$45,288 60	\$303,185,907 94

# COMMISSIONER OF RAILROADS. clxvii

# 4.—COST OF PROPERTY COMPARED WITH STOCK AND DEBT.—CONCLUDED.

Proportion of cost for Michigan previous year.	Increased cost, 1896.	Decreased cost, 1896.	Total stock and debt.	Stock and debt per mile of road.	Excess of stock and debt over reported cost per mile of road.	Excess of reported cost over stock and debt per mile of road.	a u
\$15,151 95 8,675 49 778,894 69 8,620,928 81	\$434 80 872 22 93,023 50		\$15,586 25 11,047 29 1,300,897 85 58,575,358 14	\$1,558 62 1,104 75 74,735 51 45,782 68	\$237 20 29,950 06 2,360 15		666
1,012,689 84 958,830 22 690.058 16 70,000 00	424,422 88 495 44 21,682 54		1,270,881 38 1,160,221 17 1,385,890 60 920,135 09 70,000 00	49,858 03 .11,602 21 20,818 54 25,919 30 19,444 44	33,207 47 1,470 36 6,090 25 6,481 18		6 6 7 7
560,455 44 439,558 19 1,611,651 36 365,989 42	46,557 07	\$66 06	1,900,000 00 443,077 00 2,862,721 99 412,546 49 61,200 00	1,557,876 28 12,105 92 1,272,820 88 41,254 64	96 13	\$160,199 39	7: 7: 7: 7: 7:
3,249,365 50 935,550 00 6,138,697 08 2,280,951 82 2,804,911 31	43,527 22 83,606 54 8,738 54		8,940,008 54 2,249,542 56 133,534,000 00 2,250,000 00 2,310,694 40	41,041 70 35,397 99 80,722 00	7,194 14 3,571 71	50 83	77 88
125,491 92 57,184 76 51,010 96 686,230 12	104,052 72		118,855 71 50,000-00 52,010 96 790,282 84	6,297 53 5,000 00 8,389 26 105;363 77		674 24 718 47 8,728 51	
355,441 26 228,785 43	2,214,036 60 24,781 82 10,192 63 128 30		2,409,454 46 60,000 00 300,381 09 215,921 22	117,534 36 6,000 00 4,767 99 35,986 85	9,532 57 8,521 82	1,035 72 2,165 44	1
\$301,008,148 54	\$5,846,021 26	\$3,163,261 86	\$1,093,271,421 58	\$47,482 60			

# ANNUAL REPORT OF THE

## 5.—GROSS INCOME-ENTIRE SYSTEM.

Road No.	Railroads.	Traffic earnings.	Operating receipts other than for traffic earnings.	Total receipts from operation.
1 2 3 4 5	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Bay City Belt Line (Op'd by F. & P. M.) Boyne City & Southeastern	\$1,125,215 46 6,022 84 59,385 09 19,205 35	<b>245,584 89</b>	\$1,170,750 85 6,022 84 59,885 09
8 9 10 12 18	Chicago, Kalamazoo & Saginaw Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern	233,513 91 8,345,961 27 52,110 51 31,122,903 76 31,827,579 18	2.554.73	283,513 91 3,348,518 00 52,110 51 31,352,389 67 32,177,152 81
14 15 16 17 18	Chicago & West Michigan		1,298 76 8,001 66 477 78 285,972 96	1,642,617 10 707,086 36 128,855 35 13,011,462 62
19 20 23 24 25	Detroit, Grand Haven & Milwaukee	921,807 95 1,151,428 30 398,448 01 1,872,982 56 2,118,798 12	56,013 02 14,361 66 32,827 97	977,820 97 1,165,784 96 398,448 01 1,905,810 53 2,118,798 12
26 27 30 31 33	Gogebic & Montreal Riv. (Op'd by Wis, Cent.) Grand Rapide & Indiana System	46,662 00 2,045,802 35 177,630 93 66,970 11 19,871,832 00	41 80 19,812 24 457 50 302,125 54	46,703 80 2,065,614 56 178,088 43 66,970 11 20,193,957 54
42 48 44 45 46	Lima Northern. Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary. Manistique	29,878 13 11,139 51 34,875 05 200,289 40 116,563 28	174 84 1,085 63 150 00	29,878 18 11,139 51 35,049 86 201,875 06 116,713 26
48 49 50 64 65	Mason & Oceana Michigan Air Line Railway Michigan Central System Midland & Northern Mineral Range	14,346 81 147,441 11 18,765,987 89 886 99 108,127 74	1,000 00 55,627 05	14,846 81 148,441 11 18,821,614 44 886 90 108,235 56
66 67 68 69 70	Minneapolis, St. Paul & Sault Ste. Marie Munising	85,798 99 119,536 58	28,272 40 118 25 156 00 619 96 65 57	8,688,043 80 85,912 24 119,692 53 110,703 49 21,584 81
72 78 74 77	Sault Ste. Marie Bridge Co. South Haven & Eastern. St. Clair Tunnel. Toledo, Saginaw & Muskegon	233,152 50 88,121 54	6,625 37	68,085 30 27,786 06 233,153 50 94,746 91
78 79 80 81	Wisconsin & Michigan	109,021 06 11,963,808 39 112,099 19 126,149 22	194,817 56	109,021 06 12,158,125 95 112,099 19 126,149 22
1 2 4 5 6 7 8	ORE AND FOREST EGADS.  Bear Lake & Eastern Crawford & Manistee River Heola & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	7,395 28 7,687 52 104,052 92 80,900 25 2,384 70 51,392 13 28,446 85		80,900 22
	Total	\$143,063,671 81	\$1,683,440 19	\$144,697,111 50

## 5.—GROSS INCOME—ENTIRE SYSTEM.—CONCLUDED.

Income from sources other than operating.	Total income, 1896.	Proportion for Michigan.	Proportion for Michigan, 1895.	Increase of income 1896.	Decrease of income, 1896.	Road No.
	\$1,170,750 35 6,022 84 59,385 09	\$1,026,167 27 6,022 84 59,385 09	\$993,070 19 960 88 52,286 21 17,901 29	\$33,097 08 5,062 51 7,098 88		1 2 3 4 5
\$2,840 84 802,577 67	296,354 75 3,348,518 00 52,110 51 31,654,967 84 32,177,152 81	236,354 75 2,166,355 26 52,110 51 238,865 72 2,093,694 60	287,699 77 1,989,525 15 49,307 43 258,642 29 2,327,859 80	226,830 11 2,803 08	\$51,345 02 19,776 57 234,195 20	8 9 10 12 13
	1,642,617 10 707,086 86 128,855 35 13,011,462 62	1,585,451 18 320,081 08 128,355 35 181,064 72	1,612,536 54 316,544 80 135,732 90 188,877 08	3,536 23	77.085 41 6,877 55 2,812 31	{ 14 { 15 16 17 18
2,274 55 32,402 20 128,559 59	977,820 97 1,168,038 51 398,448 01 1,938,212 73 2,247,357 71	977,820 97 1,165,784 96 398,448 01 1,741,171 49 2,245,385 99	1,013,820 62 1,149,654 89 364,894 83 1,628,075 69 2,134,996 06	16,130 07 84,053 65 113,095 80 110,449 91	35,499 65	19 20 23 24 24
854,811 77	46,704 80 2,065,614 59 178,088 43 66,970 11 20,548,769 81	46,704 80 1,775,098 17 178,088 43 43,288 48 2,048,882 24	52,809 91 1,913,201 55 194,199 63 41,741 81 2,254,253 23	1,547 17	6,105 11 138,103 38 16,111 20 205,870 99	26 27 30 31 33
	29,878 18 11,139 51 85,049 89 201,875 03 116,718 28	2,321 35 11,189 51 35,049 89 201,375 08 116,718 28	10,647 04 37,837 72 205,652 05 117,228 07	2,321 35 492 47	2,787 88 4,277 02 514 79	42 48 44 45 46
94 00 39,685 34 12,500 00	14,346 81 148,585 11 18,861,299 78 886 99 120,735 56	14,346 81 148,585 11 7,508,208 64 886 99 120,785 56	18,695 91 175,483 58 7,542,893 69 1,468 38 118,569 19	7,166 87	4,349 10 28,948 47 34,685 05 581 84	48 49 50 64 65
842 82	8,718,906 13 35,902 24 119,692 58 111,546 31 21,584 81	780,869 85 35,902 24 119,692 53 111,546 31 21,584 81	110,215 85 114,170 99 84,057 72	174,540 67 85,902 24 9,476 68	2,624 68 62,472 91	66 67 68 69 70
	68,085 30 27,786 08 283,153 50 94,746 91	18,667 20 27,786 06 116,576 75 94,746 91	17,754 58 19,642 47 103,659 25 94,968 78	912 62 8,143 61 12,917 50	221 87	72 78 74 77
	109,021 06 12,158,125 95 112,099 19 126,149 22	34,118 22 347,806 67 112,099 19 126,149 22	41,232 56 450,524 12 149,584 33 123,474 81	2,674 91	7,119 34 102,717 45 37,485 14	78 79 80 81
	7,395 28 7,687 52 104,052 92 80,900 25 2,384 70 51,392 13 28,446 85	7,395 28 7,687 52 104,052 92 80,900 25 2,384 70 51,392 13 28,446 85	7,905 10 5,876 48 84,493 56 	90 18 1,811 04 19,559 86 80,900 25 2,384 70 3,064 19	23,418 86	1 2 4 5 6 7 8
\$907,451 11	\$145,604,562 61	\$29,022,999 96	\$29,209,114 48	\$917,866 72	\$1,103,481 24	

#### 6.-EXPENSES.

Road No.	· Railroads.	Maintenance of way and atructures.	Maintenance of equipment.	Conducting trans- portation.
123589	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	\$481,648 81 418 54 10,380 26 1,573 56 36,747 10 411,394 88	\$180,626 25 563 47 16,086 13 2,724 81 72,758 10 470,441 86	\$441,352 95 1,853 85 40,608 65 6,859 45 163,929 73 1,971,899 24
10 12 13 14 15	Chicago, Kalamazoo & Saginaw. Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan. Chicago & North Michigan.	6,480 53 4,804,735 66 4,309,882 72 366,834 58	3,163 28 2,707,708 64 8,593,850 22 189,976 70	18,459 29 9,656,403 24 11,496,658 88 667,590 78
16 17 18 19 20	Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	140,287 38 30,742 50 1,746,751 60 185,894 54 257,520 10	103,597 64 19,103 60 1,539,091 33 134,141 52 145,571 37	332,348 64 68,299 05 5,738,985 51 528,018 67 508,016 37
28 24 25 26 27	Detroit & Mackinac Daluth, South Shore & Atlantic	82,206 71 305,226 22 827,893 03 9,757 94 383,184 20	36,088 92 153,413 87 214,809 04 5,860 05 837,928 89	126,601 81 714,218 61 921,499 71 22,018 58 877,899 87
30 31 33 43 44	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.) Lake Shora & Michigan Southern System Lowell & Hastings Manistee & Grand Rapids	17,564 22 16,054 42 2,209,142 69 2,927 58 9,115 39	16,242 02 5,638 76 2,767,409 69 766 31 3,414 87	67,061 00 51,188 02 7,664,427 18 6,695 25 8,493 97
45 46 48 49 50	Manistee & Northeastern and Supplementary Manistique Mason & Oceana Michigan Air Line Railway Michigan Central System	27,909 46 23,706 99	16,428 46 13,131 50 3,600 00 11,127 64 1,542,384 55	64,212 40 34,072 11 8,672 89 70,525 84 6,281,472 78
64 65 66 67 68	Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising Pontiac, Oxford & Northern	9,712 76 384,586 96 2,303 28 25,570 92	7,583 96 419,372 09 1,056 97 6,943 20	1,820 48 33,112 92 1,265,006 01 12,897 18 38,485 80
<b>69</b> 70 72 73	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System Sault Ste. Marie Bridge Co. South Haven & Eastern	25,953 38 3,814 53 12,174 22	14,812 41 988 42 5,504 35	38,449 82 10,601 32 11,333 93
74 77 78 79 80 81	St. Clair Tunnel  Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash Detroit Union R. R Depot & Station Co. The Fort St. Union Depot Co.	0,483 84	51,400 78	25,844 92 62,427 10 46,161 81 5 361 845 40
	ORE AND FOREST BOADS.			
1 2 4 5 6 7 8	Bear Lake & Eastern Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther. Quincy & Torch Lake	1,820 49 3,574 14 17,573 52 4,050 10 5,575 97 9,832 94 7,654 66	613 69 1,242 85 1,497 70 205 85 8,983 38 4,278 94	2,518 30 2,675 75 83,849 46 23,414 32 1,509 85 14,396 88 15,901 77
	Total	\$20,587,190 27	\$16,508,586 41	\$55,611,597 18

6.—EXPENSES.—CONCLUDED.

Road No.	Decrease, 1896.	Increase, 1896.	Same for Michigan pre- vious year.	Proportion of expenses and taxes for Michigan.	Total expenses includ- ing taxes.	General expenses includ- ing taxes.
	\$21,252 65 26,245 45	\$111,400 09 2,418 91 809 84	\$1,048,627 27 624 87 92,087 13 10,749 25 315,067 35 1,835,877 28	\$1,160,027 36 3,043 28 70,834 48 11,558 59 288,821 90 2,018,748 65	\$1,183,459 87 3,043 28 70,834 48 11,558 59 288,821 90 8,116,894 96	\$79,831 86 207 44 3,759 46 400 77 15,386 97 263,159 48
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	34,352 92 76,965 75	1,896 57 152,615 93	82,539 99 226,274 86 2,046,498 51 1,320,057 43	34,436 56 191,921 94 2,199,114 44 1,243,091 68	34,436 56 19,465,057 38 21,226,924 80 1,321,475 88	6,333 46 2,296,239 84 1,826,532 98 97,078 82
11 11 12 12 12 12 12 12 12 12 12 12 12 1	7,665 44 27,594 86	2,478 82 1,549 74 95,228 65	285,861 56 131,912 50 110,450 75 931,172 27 893,351 52	288,340 38 124,247 06 112,000 49 903,577 41 990,580 17	636,968 57 124,247 06 10,079,798 60 903,577 41 990,580 17	60,784 96 6,101 91 1,054,970 16 55,522 68 79,472 33
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19,657 88 10,457 20 78,512 25	21,943 81 79,560 75	259,158 42 1,027,014 15 1,607,377 06 53,074 99 1,601,403 72	281,102 28 1,106,574 90 1,587,719 23 42,617 79 1,522,891 47	281,102 23 1,278,142 14 1,589,198 11 42,617 79 1,723,111 54	36,204 79 100,283 44 124,996 33 4,981 22 124,098 58
	1,027 45 148,144 21 1,037 24	6,201 59 	105,898 40 48,403 72 2,024,982 58 11,701 73 18,631 94	112,099 99 47,876 27 1,876,838 37 10,664 49 25,154 79	112,099 99 74,307 93 13,726,154 67 10,664 49 25,154 79	11,232 75 1,426 73 1,085,175 16 275 35 4,180 56
1	10,769.44 4,849.10 10,744.82	6,155 86	135,125 77 67,689 22 18,695 91 151,797 74 6,027,177 71	124,356 33 73,844 58 14,346 81 141,052 92 6,151,934 64	124,856 83 73,844 58 14,346 81 141,052 92 10,392,349 90	15,806 01 2,938 98 378 92 4,747 87 645,945 66
	42 47 288 17	30,680 00 18,260 42 8,120 38	1,862 95 60,036 13 425,536 41 73,060 83	1,820 48 59,822 96 556,218 41 18,260 42 81,181 21	1,820 48 59,822 96 2,291,191 83 18,280 42 81,181 21	9,413 32 222,226 77 2,003 04 10,181 29
	49,244 59	2,319 74 708 48 16,842 02 1,584 11	89,246 70 66,009 64 2,811 42 15,906 44 43,957 60	91,566 44 16,765 05 3,519 90 32,748 46 45,541 71	91,586 44 16,765 05 11,891 22 82,748 46 91,083 42	12,850 83 1,360 78 11,891 22 8,735 96 8,853 93
	109,329 64 2,016 28 289 54	19,026 67 3,757 45	113,420 21 22,948 19 402,024 48 27,900 52 8,583 38	182,446 88 26,705 64 292,694 84 25,884 29 8,343 84	132,446 88 86,147 23 9,571,434 80 25,884 29 8,343 84	4,682 82 13,105 27 742,825 66 25,884 29 8,343 84
	608 01 	1,808 97 19,559 16 31,889 30 7,448 73 2,084 19	6,181 59 5,801 30 84,493 56 	5,573 58 7,610 27 104,052 72 31,889 30 7,448 73 36,966 42 28,446 85	5,573 58 7,610 27 104,052 72 31,889 90 7,448 73 36,966 42 28,446 85	621 10 117 53 2,629 74 2,927 18 157 03 8,653 22 611 48
_	\$667,108 28	\$935,480 33	\$23,981,055 55	\$24,269,427 60	\$101,803,790 13	\$9,096,416 27

#### 7.-GENERAL EXHIBIT.-REVENUE AND DISBURSEMENTS.

Zo.		Total	Total	Net result fr'm
Road N	Railroads.	revenue from operation.	operating expenses in- cluding taxes	Surplus.
1	Ann Arbor. Arcadia & Betsey River. Au Sable & Northwestern.	\$1,170,750 85	\$1,183,459 87	
2	An Sable & Northwestern	6,022 84 59,885 69	8,043 28 70,384 48	\$2,979 56
1 2 3 5 8	Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	19,205 85	11,558 59 288,821 90	7,646 76
8		1	288,821 90	
9	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw Chicago & Kalamazoo Terminal Chicago, Milwaukee & St. Paul	3,848,518 00 52,110 51	8,116,894 96 84,486 56	281,623 04 17,678 95
10 11	Chicago, Kalamazoo & Saginaw	52,110 51	84,486 56	17,678 95
12	Chicago, Milwaukee & St. Paul	81,352,389 67	19,465,087 88	11,887,302 29
13	Unicago & Northwestern	32,111,132 61	21,226,924 80	10,950,228 01
14	Chicago & West Michigan	1,642,617 10	1,321,475 88	821,141 22
15 16	Cincinnati Jackson & Mackinaw	707,086 36		70, 117, 79
17	Cincinnati, Saginaw & Mackinaw.	128,855 35	636,968 57 124,247 06 10,079,798 60	4,608 29 2,931,664 02
18	Cleveland, Cincinnati, Chicago & St Louis	13,011,462 62	10,079,798 60	2,931,664 02
19	Detroit, Grand Haven & Milwaukee Detroit, Lausing & Northern System Detroit & Mackinac. Duluth, South Shore & Atlantic Flint & Pere Marquette.	977,820 97	903,577 41 1,007,345 22	74,248 56
20	Detroit & Macking & Northern System	1,187,369 77 400,622 86	2×1,102 23	180,024 55 119,520 68
20 28 24 25	Duluth, South Shore & Atlantic	1,905,810 53 2,118,798 12	1,273,142 14 1,589,198·11	632,668 89 529,600 01
25	Flint & Pere Marquette		l ·	529,600 01
26	Gogebic & Montreal River (Op'd by Wis. Cent.)	46,704 80 2,065,614 59	42,617 79 1,728,111 54 112,099 99 . 74,807 98 13,726,154 67	4,087 01 342,503 05 65,988 44
27	l (trand Kanida & Indiana System	2,065,614 59	1,728,111 56	842,503 05 45 988 44
26 27 80 81 83	Indiana & Lake Mich. (Op'd by Terre Haute & I )	178,088 43 66,970 11 20,193,957 54	74,807 93	
<b>33</b>	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I ) Lake Shore & Michigan Southern System	20,193,957 54	18,726,154 67	6,467,802 87
48	Lowell & Hastings	11,189 51	10,664 49	475 02
44 45 46	Manistee & Grand Rapids	85,049 89 201,875 03	25,154 79 124,356.33	9,895 10 77,018 70
46	Manistee & Grand Rapids Manistee & Northeastern & Supplementary Manistique	116,713 28	73.844 58	42,868 70
48	mason & Oceana	14,050 01	14,346 81	
49	Michigan Air Line Railway Michigan Central System Midland & Northern	148,441 11	141,052 92 10,392,849 90	7,388 19 3,429,264 54
64	Michigan Central System	18,821,614 44 886 99	1,820 48	
65	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie	108,235 56 8,688,043 80	59, 522 96	48,412 60
66			2,291,191 83	1,896,851 97
67	Munising	35,902 24	18,:60 42	17,641 82
68 69	Pontiac, Uxford & Northern	119,692 53 110,703 49	91.566 44	38,511 32 19,137 05
72 73	Sault Ste. Marie Bridge Co	63,085 80 27,786 08	81,181 21 91,566 44 11,891 22 22,748 46	51,194 08
73	Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Sault Ste. Marie Bridge Co. South Haven & Eastern	27,786 08	22,748 46	
74	St. Clair Tunnel	238,153 50 94,746 91	91,083 42 132,446 88	142,070 08
77 78	Tolego, Saginaw & Muskegon	94,748 91 109,021 06	132,446 88 86,147 23	22,873 83
79	l Wahesh	1 12.158.125 95	9.571.434 80	2.586.691 15
80 81	Detroit Union B. B. Depot & Station Co	112,099 19 126,149 22	25,884 29 8,843 84	86,214 90 117,805 38
			0,020 01	111,000
	ORE AND FOREST ROADS.	1	1	1
1	Bear Lake & Eastern	7,395 28	5,578 58 7,610 27 104,052 72	1,821 70
1 2 4 5	Hecla & Torch Lake	7,687 52 104,052 72	104.052 72	77 25
5	Bear Lake & Rastern Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern	80,900 25	31,889 30	49,010 95
6 7	Lewiston & Southeastern	2,384 70 51,392 13	7,448 73 36,966 42	14,425 71
8	Manistee & Luther Quincy & Torch Lake	28,446 85	28,446 85	12,220 11
	Total	@144 880 900 09	e101 909 700 19	849 001 079 49
	Total	\$144,669,399 02	9101,505,790 18	\$43,001,078 48

#### 7.-- REVENUE AND DISBURSEMENTS.-- CONCLUDED.

year's business.		Pa	yable from inco	me.		و ا
Deficit.	Interest on funded debt.	Interest on floating debt.	Rentals, etc.	Dividends.	Total.	Road No.
\$12,709 52 11,449 89		\$6,664 46			\$6,664 46	
·						1
55,307 99	<b>\$65,700 00</b>	43,800 00			109,500 00	1
	660,000 00	89,196 88 14,368 52	\$13,945 50		763,141 83 14,368 52	
						. 1
	7,573,104 01 6,390,819 49	221,412 50	18,213 88	\$8,718,268 44 3,517,757 50	11,286,872 45 10,142,708 37	
	408,364 28				408,364 28	1
	00 no 000	5,259 10	44,491 19		49,750 29	1
	86,250 00 2,642,972 11		199,992 90	500,000 00	49,750 29 86,250 00 8,342,965 01	1
· <i>-</i>	824,500 00 65,305 00 116,000 00 861,098 34 591,106 66	27,009 88 2,801 48	78,635 09		851,509 88 141,741 57	
	116,000 00	l .			116,000 00	
	861,098 84 591,106 66	856 47 22,216 64			141,741 57 116,000 00 861,954 81 61s,828 80	
	463,491 97 16,250 00	45,337 83		17,500 00	508,829 80 88,750 00	
7,887 82	8,117,745 00	58,350 00	629,119 39	2,967,990 00	6,768,104.89	-
	0,111,112 00	30,000 00	Jan., 125 at	2,001,000 00	0,100,102 00	l
		5,414 56			F 444 70	1
		0,914 00			5,414 56	ı
	75,483 34				75,433.84	l
200	75,433 34 1,067,800 00		1,633,239 27	749,520 00	75,438 84 3,450,5 <b>59</b> 27	
933 49	17,025 00 1,147,016 84	8,228 38 49,258 46	101,021 09	27,538 00	52,791 88 1,297,296 89	١
	2,131,010 0	10,200 10	101,021 00		1,281,280 08	ı
	5,256 68			80,000 00	35,256 68	
	45,000 00	68,548 08			68,548 08	ı
4,962 88	15,000 00	527 88			35,256 68 68,548 08 45,000 00 527 28	
	125,000 00 82,450 00 49,025 00 2,694,545 00				125,000 00	l
87,699 97	82,450 00 49,025 00				125,000 00 82,450 00 49,025 00	ı
	2,694,545 00	35,000 00	57,700 89		2,787,245 89	l
*************	45,000 00				45,000 00	1
	87,278 70	5,329 59			42,603 29	
5,064 08			2,000 00		2,000 00	
			2,000 00		2,000 W	
<b>\$195,464</b> 59	\$28,778,082 42	\$704,579 11	\$2,768,858 70	\$11,528,578 94	\$43,769,544 17	1

## 8.—GENERAL EXHIBIT, STATEMENT OF BALANCES.

Š.	Railroads.	Balance, Dece	mber 31, 1896.
Road	Kanroads.	Debit.	Credit.
1	Ann Arbor Aroadia & Betsey River Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	\$19,378 98	\$2,979 56
1 2 3 5	Au Sable & Northwestern	11,449 89	I
5 8	Boyne City & Southeastern	164,807 99	7,646 76
9 10	Chicago & Grand Trunk Chicago Kalamazoo & Saginaw Chicago & Kalamazoo Terminal Chicago, Milwaukee & St. Paul	281,318 79	8,305 43
11 12	Chicago & Kalamazoo Terminai		600,929 84
13			
14	Chicago & West Michigan}	85.726.76	001,322.02
15 16	Chicago & Northwestern Chicago & West Michigan Chicago & North Michigan Chicago & North Michigan Schiedinati, Jackson & Mackinaw		20,367 50
17 18	Cincinnati, Saginaw & Mackinaw Cieveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	81,641 7t 211,308 09 277,266 32	
19 20	Detroit, Grand Haven & Milwaukee	277,286 82	48,902 82
23 24 25 26	Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette Gogebic & Montreal Riv. (Op'd by Wis, Cent.)	229,286 42	3,320 63
25 26	Flint & Pere Marquette		44,839 80 4.087 01
	Grand Bankle & Indiana System	166 996 95	
30	Hancock & Calumet	100,020 25	32,238 44
27 30 31 82	Grand Rapids & Indiana System Hancock & Calumet Indiana & Laks Mich. (Op'd by Terre Haute & I.) Iron Range & Huron Bay		
	Take Shore & Wishings Southern System	300,401 52	
43	Lowell & Hastings.		475 02
33 43 44 45	Lake Shore & Michigan Southern System Lowell & Hastings. Manistee & Grand Rapids. Manistee & Northeastern and Supplementary.		9,895 10 2,500 75
46	Vanistique		87,454 14
49	Michigan Air Line Railway	68,045 15	
50 64	Manistique. Michigan Air Line Railway. Michigan Central System. Midland & Northern.	938 49	
65			Į.
66	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie		99,555 58 17,641 82 3,254 64
67 68	Munising Pontiac, Oxford & Northern		3,254 64
AQ			
69 70 72 73	Saginaw Valley & St. Louis System	6,070 74	
72 78	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System Sault Ste. Marie Bridge Co. South Haven & Eastern	5,489 71	
74			17,070 08
77	St. Clair Tunnel	120,149 97	
78 79	Wabash	26,151 17 200,554 24	
	ORE AND FOREST BOADS.	-	
1	Rear Lake & Restern		1,821 70
1 2 5	Crawford & Manistee River.	188 76	6,407 66
6	Lewiston & Southeastern	5,084 03	0,407 00
7	Bear Lake & Bastern Crawford & Manistee River. Lake Superior & Ishpeming. Lewiston & Southeastern Manistee & Luther. Quincy & Torch Lake		12,425 71
	Total	\$2,576,839 02	\$1,784,844 18

# 8.—GENERAL EXHIBIT, STATEMENT OF BALANCES.—Concluded.

5	rward to 1897.	Balance for	count other n traffic.	than from	vard from 1895.	Balance forv
N. Fred	Credit.	Debit.	Credit.	Debit.	Credit.	Debit.
	\$3,315 52 286,382 29 17,797 60	\$6,312 72	\$8,612 71		\$4,448 55 335 96 277,811 68 10,150 84	
		485,175 53	164,807 99 594,189 32	\$173,155 91 3,305 43		<b>\$824,640</b> 15
	8,705,159 15		302,577 67	229,830 00	8,031,481 64	
	8,899,290 64	11,992 71		6,492,318 25	9,584,079 25 73,784 05	
'	66,565 11			49,750 29	46,197 61	
	251,087 18	69,869 87	57,855 28 7,792 90 277,266 82		454,602 87	46,083 44
-	70.000.00	108,004 79		** 40¢ 04	40r oor 44	151,907 61
	79,290 53 198,455 21 8,559 68	1,177,659 65	82,402 20	59,466 01	185,235 91 158,315 91	980,775 43 527 38
	292,852 91	3,994,486 27		80,985 01	280,114 47	8,797,175 O1
	282,002 91				200,111 21	
	11,585,220 14	8,430 88	854,811 77	156,675 14	11,637,485 08	8,905 90
l	98,201 22	245,768 72			83,806 12	248,264 47
	245,409 74 7,181,870 27		68,045 15 39,685 34		207,955 60 7,152,979 66	
		2,871 80				1,438 31
	167,735 10	824,291 99	12,500 00	100,291 70	159,613 88	823,555 87
	17,641 82 3,606 75			8,768 92	9,121 08	
		263,780 60 196,985 71	1,007 68	5,411 11		209,916 14 190,864 97
	24 58	10 801 00			5,514 29	00 700 07
		12,721 99 342,856 83 34,509 85 200,554 24	84,459 82			29,792 07 256,666 18 8,358 18
		200,554 24				
	12,196 21				10,814 51 188 76	
	6,407 66 97,471 85 12,992 21	5,064 08			85,471 85 12,993 21	
-	10,000 21				12,598 21	
1	\$38,156,158 82	\$7,935,182 18	\$1,955,984 15	\$7,309,902 77	\$88,039,426 18	\$7,078,871 11

#### 9.-TRAFFIC BARNINGS.-ENTIRE SYSTEM.

<u>٠</u>			Passenger
Road No.	Railroade.	Passenger fares.	Express and baggage.
1	Ann Arbor	\$230,266 36	\$20,570 68
3	An Sable & Northwestern	50 68 5,395 85	
589	An Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	5,395 35 522 15 122,699 38 778,696 71	10,884 73 49,318 98
10 12 13			870 42 859,198 98 568,277 76
13 14 15	Chicago, Kalamazoo & Saginaw. Chicago, Milwaukee & St. Paui. Chicago & Northwestern. Chicago & West Michigan. Chicago & North Michigan.	7,255,084.88 534,661.94	568,277 76 38,652 77
16			84,599 96
17 18	Cincinnati, Jackson & Mackinaw. Cincinnati, Saginaw & Mackinaw. Cleveland, Cincinnati, Chicago & St. Louis. Detroit, Grand Haven & Milwaukee. Detroit, Lansing & Northern System.	84,653 21 8,828,029 36	1,869 90 1,869 87 858,468 26 27,762 71 23,580 00
19 20	Detroit, Grand Haven & Milwaukee	365,166 46 465,792 01	27,762 71
20			
23	Detroit & Mackinac	75,412 61 471,798 32	1,749 22 39,358 69
25	Flint & Pers Marquette.	598,860 00	51,639 82
23 24 25 26 27	Detroit & Mackinac Duluth, South Shore & Atlancic Flint & Pera Marquette. Gogebie & Montreal River (Op'd by Wis. Cent.) Grand Rapids & Indiana System.	4,240 60 618,093 65	597 71 45,869 88
80	Hancock & Calumet Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings	11,809 90 16,880 36 4,520,045 27 9,086 55 2,854 00	883 89
31 88	Indiana & Lake Michigan (Op'd by Terre Haute & I.)	16,880 36 4 520 045 27	615 24 647 191 81
42	Lima Northern	9,086 55	647,191 8 1,800 0 86 6
43			86 62
44 45	Manistee & Grand Rapids.  Manistee & Northeastern and Supplementary.  Manistique	1,042 42	1,202 9
43	Manistique	38,476 79 9,244 99	1,002 6
48 49	Mason & Oceana Michigan Air Line Railway	1,652 51 80,493 91	2,499 9
50 64	Michigan Central System Midland & Northern. Mineral Range Minneapolis, St. Paul & Sault Ste. Marie.	3,545,656 40	409,628 3
64 65	Mineral Range	31,132 19	1,658 0
66 67	Munising	475,082 18 8,436 80	87,877 30 328 8
<b>6</b> 8	Pontiac, Oxford & Northern	34,403 04 85,827 58	2,171 2 727 1 420 0
70	Saginaw Valley & St. Louis System	85,827 58 11,439 48	420 0
69 70 78 74	Sagisaw, Tuscola & Huron Saginaw Valley & St. Louis System South Haven & Eastern St. Clair Tunnel	18,623 84	1,228 0
77			902 0
78	Toledo, Saginaw & Muskegon. Wisconsin & Michigan. Wabash Detroit Union B. R. Depot & Station Co	11,926 20	152 1
78 79 80 81	Wabash Detroit Union R. R. Denot & Station Co.	2,986,035 73	800,108 1
81	The Fort Street Union Depot Co.		
	ORE AND FOREST ROADS.		
1	Bear Lake & Eastern	24 70	
2	Crawford & Manistee River.		
5	Lake Superior & Ishpeming		
4 5 6 7	Lewiston & Southeastern	197 00	
8	Bear Lake & Eastern Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake		
_	Total	\$38,806,719 61	

9.—TRAFFIC RARNINGS.—CONCLUDED.

department.			Frei	ight departn	ent.		٥
Mails.	Other sources.	Total.	Freight.	Other sources.	Total.	Total traffic earnings.	Road No.
\$38,952 84	\$4,003 19	\$293,793 07 50 68	\$723,878 92 5,972 16	\$107,543 47	\$831,422 39 5.972 16	\$1,125,215 46 6,022 84	1
1,742 76 307 24 9,749 60 71,972 64	21,837 43	7,138 11 829 39 143,253 71 921,822 76	52,246 98 18,018 01 90,230 20 2,424,138 51	857 95	5,972 16 52,246 98 18,375 96 90,230 20 2,424,188 51	59,385 09 19,20; 85 233,513 91 3,345,961 27	
1,923 60 1,198,797 00 881,769 57	266 40 380,806 45	20,639 06 8,370,901 59 8,703,082 21	81,225 04 22,751,402 17 23,122,496 97	246 41	31,471 45 22,751,402 17 23,122,496 97	52,110 51 31,122,303 76 31,827,579 18	10 12 13 13 516
66,436 87		639,751 58	993,261 99	8,309 77	1,061,571 76	1,641,328 34	∦ii
25,252 96 4,166 33 582,178 14 80,227 33 51,374 54	8,578 10	230,790 51 40,689 41 4,718,695 76 426,729 60 540,746 58	468,294 19 87,688 21 8,026,813 90 495,078 35 610,676 72		468,294 19 87,688 21 8,026,813 90 495,078 35 610,676 72	699,084 70 128,877 62 12,745,489 66 921,807 95 1,151,428 80	16 17 18 19 20
13,839 22 51,871 83 66,926 15 316 29 52,820 21	18,138 43 14,713 41	5.154 60	307,946 96 1,305,339 12 1,388,233 72 41,359 95 1,314,451 41	4,619 60 147 45 5,354 29	307,916 96 1,309,958 72 1,388,238 72 41,508 40 1,319,805 70	398,448 01 1,872,982 56 2,118,798 12 46,662 00 2,045,802 35	24 24 24 24 24
669 01 2,857 74 1,415,553 00 547 84	161 00	12,812 80 20,353 35 6,582,790 08 10,886 55 8,649 02	164,818 13 46,616 76 13,043,049 87 18,991 58 7,490 49	245,992 05	164,818 13 46,616 76 13,289,041 92 18,991 58 7,490 49	177,630 98 66,970 11 19,871,532 00 29,878 13 11,139 51	80 81 31 42 43
4,418 34 1,753 16 1,256 20 8,338 00		1,042 42 44,098 08 10,998 15 2,908 71 41,331 87	33,832 63 156,191 32 105,565 13 11,438 10 106,109 24		33,832 63 156,191 82 105,565 13 11,438 10 106,109 24	84,875 05 200,289 40 116,563 28 14,346 81 147,441 11	41
398,240 85 1,330 59 160,927 70 569 81	25,171 95	4,853,525 68 34,120 80 698,559 19 4,334 46	9,412,461 76 886 99 73,455 02 2,959,452 23 31,449 53	551 92 6,759 98	9,412,461 76 886 99 74,006 94 2,966,212 21 31,449 53	13,765,987 89 886 99 108,127 74 3,664,771 40 35,793 99	56 64 68 68
7,663 04 5,178 28 1,055 40 1,880 14	12 00	44,249 30 41,782 90 12,914 88 16,731 99 43,636 00	75,287 28 68,350 63 8,604 36 10,572 85 189,516 50		75,287 23 68,350 63 8,604 36 10,572 35 189,516 50	119,536 53 110,083 53 21,519 24 27,304 34 238,152 50	68 70 71 74
7,274 01 1,898 60 507,027 96	87 80 78,253 45	· ·	61,549 00 87,917 13 7,878,077 70	7,626 94 213,805 43 112,099 19 126,149 22	61,549 00 95,544 07 8,091,883 13 112,099 19 126,149 22	88,121 54 109,021 06 11,963,308 39 112,099 19 126,149 22	71 78 71 80 81
		24 70 	7,370 58 7,687 52 104,082 92 80,900 25 2,384 70 51,195 13 28,446 85		7,870 58 7,657 52 104,052 92 80,900 25 2,384 70 51,195 13 28,446 85	7,893 28 7,687 52 101,052 92 80,900 25 2,884 70 51,892 13 28,446 85	
	eren enz 11	649 A69 E97 99	900 002 475 11	8889.568 67	\$99,932,088 78	\$148,000,576 01	1

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#### 10.-ANALYSIS OF EARNINGS AND EXPENSES-ENTIRE LINE.

ŗ.				To	tal receipts
Road numb'r.	Railroads.	Miles of road operated.	Total		Per train
Road			income.	Passenger.	Freight.
1 2	Ann Arbor Arcadia & Betsey River	302.78 17.50	\$1,170,750 35 6,022 84 59,385 09	\$0 67.88	\$1 42.78
8 8	Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	108 16 59.87	59,385 09 19,205 35 236,354 75	26 11 72	48 97 98
9 10 12 18 14	Chicago & Grand Trunk. Chicago, Kalamazoo & Saginaw. Chicago. Milwaukee & St. Paul Chicago & Northwestern. Chicago & West Michigan.	835.27 44.20 6,150.75 5,030.78 581.11	8,848,518 00 52,110 51 31,654,967 34 32,177,152 81 1,642,617 10	83 36.1 1 02.66 87.44 81	1 08 1 13 1 63.36 1 41.43 1 33
16 17 18 19 20	Cincinnati, Jackson & Mackinaw	414.49	707,086 36 128,855 85 18,011,462 62 977,8:0 97 1,189,643 32	46 62 88 87 47	96 2 03 1 28 1 18 53
23 24 25 26 27	Detroit & Mackinac Duluth, South Shore & Atlantic	296.40 588.33 783.66 16.90 584.79	398,448 01 1,938,212 78 2,247,357 71 46,704 80 2,063,614 59	59 82 69 27 79	1 24 1 61.80 1 19 2 46 1 58
30 81 83 42 43	Hancock & ('alumet	81.42 39.29 1,439.66 87.07 12.50	178,068 43 66,970 11 20,548,769 31 29,878 18 11,139 51	48.92 34 1 41	1 04.87 1 40 1 80
44 45 46 48 49	Manistee & Grand Rapids Manistee & Northeastern and Supplementary Manistique Mason & Oceana Michigan Air Line Railway	1 59.50	85,049 89 201,375 08 116,713 28 14,346 81 148,585 11	05 41 17 17 17 58	1 58 1 78 1 64 88 91
50 64 65 66 67	Michigan Central System Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising	10	13,861,299 78 886 99 120,735 56 8,718,906 13 35,902 24	1 03 85.87 68.51 1 12	1 64 1 26.84 1 84.72 2 46
68 69 72 73	Pontiac, Oxford & Northern Saginaw, Tuscols & Huron. Ault Ste. Marie Bridge Co. South Haven & Eastern St. Clair Tunnel.	100.59 66.57 86.60 2.25	119,692 53 111,546 31 63,085 30 27,786 08 283,153 50	55 48 27.88	1 60 17.25
77 78 79 80 81	Toledo, Saginaw & Muskegon	96.00 72.07	94,746 91 109,021 (6 12,158,125 95 112,099 19 126,149 22	36 28 80.99	84 1 87 1 41.88
1 2 4 5 6 7 8	OBE AND FOREST EOADS.  Bear Lake & Eastern Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	18 10 7.50 20.50 10 63 6	7,395 28 7,687 52 104,082 92 80,900 25 2,384 70 51,392 13 28,446 85		72 6.15 61 1 82
	Total	25,075.14	\$145,604,562 61	\$0 94.60	\$1 57.4

## COMMISSIONER OF RAILROADS. clxxix

10.-ANALYSIS OF EARNINGS AND EXPENSES-ENTIRE LINE.-CONCLUDED.

rom opei	ration.	Оре	rating ex	penses.	·	Net i	per erated.	Net train	per mile.	1
nile. Total.	Per mile of road.	Total expenses and taxes.	Per mile of road.	Per train mile.	Per- centage of ex- penses to earnings.	Surplus.	Deficit.	Surplus.	Deficit.	Road number.
\$1 18.39 43 74 80	\$3,498 88 344 17 549 86 1,200 38 3,938 20	\$1,183,459 87 3,043 28 70,834 48 11,558 59 288,821 90	\$8,909 29 173 90 655 88 722 41 4,864 78	\$1 26.68 52 44 98.99	101.08 50.53 119.28 60.00 110.84	\$170 27 477 92 931 58	\$410 46 106 02	<b>8</b> 0 80	18.69	
1 00 61.3 1 41.99 1 22.33 1 06	9,987 53 1,178 97 5,097 88 6,396 06 2,826 67	3,116,894 96 34,436 56 19,465,087 38 21,226,924 80 1,321,475 88	9,296 67 779 10 3,164 67 4,219 41 2,274 03	93 40.5 88.15 80.69 85	93.08 66 62.08 65.97 80.45	374 56 399 87 1,982 66 2,176 65 552 64		07 20.8 53.84 41.64 21		1
72 1 18 1 09 1 07 50.05	1,730 64 2,431 23 7,078 71 5,173 66 3,096 30	636,968 57 124,247 06 10,079,798 60 903,577 41 1,007,345 22	1,559 01 2,344 28 5,483 78 4,780 83 2,659 16	65 1 14 84 99 43	90.08 96.42 85.45 92.41 84.67	171 63 86 95 1.594 93 392 83 437 14		07 04 25 08 07.05		
1 00 1 27.87 95 1 30 1 18	1,851 63 3,239 36 2,777 07 2,865 32 4,151 65	281,102 23 1.273,142 14 1,589,198 11 42,617 79 1,723,111 54	948 12 2,163 99 2,082 93 2,614 58 3,463 26	70 85.9 71 1 18.41 98	70.19 66.80 75 91.25 83.42	403 51 1,075 37 694 14 270 74 687 39		30 41.47 24 11.59 20		
97.18 72 1 67	5,668 00 1,704 51 14,026 89 343 15 891 16	112,099 99 74,307 93 13,726,154 67 10,664 49	3,567 79 1,891 27 9,534 52 853 16	61.14 80 1 14 	62.95 111 67.97	100 21 4,492 87 38 00	286 76	35.99 53 03	08	
1 68 1 01 1 82 44 75	783 94 2,225 14 1,961 57 531 36 1,405 69	25,154 79 124,356 33 73,844 58 14,346 81 141,052 92	562 64 1,874 10 .1,241 09 581 36 1,335 78	1 17 62 1 15 44 72.22	77.17 61.8 63 100 95	221 82 851 08 720 48		46 39 67 04.88		
1 82 1 09.83 1 41.94 2 81	8,415 65 6,220 43 3,102 56 1,408 81	10,392,849 90 1,820 40 59,822 96 2,291,191 83 18,260 42	6,827 65 8,438 10 1,977 99 716 38	99 80.70 88.18 1.43	75.19 205 55.27 71.91 50.86	2,088 00 2,782 33 1,085 05 692 11		82.69 49.13 40.99 1.38		
72.65 85 45.33	1,196 92 1,662 96 759 18	81,181 21 91,566 44 11,891 22 82,748 46 91,083 42	811 81 1,375 49 894 77	49.28 70 58.50	67.82 82.71 112	385 11 287 47	135 59	28.87 15	08.17	
64 1 09 1 14.09	809 80 1,512 61 6,178 76	182,446 88 86,147 23 9,571,434 80 25,884 29 8,343 84	1,132 02 1,195 23 4,943 42	90 86 91.28	189.79 79 80.01	317 38 1,235 84	322 22	23 22.81	26	
72 1 98 6 15 61	410 85 768 75 13,874 90 8,946 85 238 47 815 74 4,741 14	5,573 58 7,610 27 104,052 72 31,889 30 7,448 73 36,966 42 28,446 85	309 64 761 03 13,874 90 1,555 57 744 87 586 77 4,741 14	71.07 1.93 2.42 1.91	75.78 98.99 100 39.42 820.80 72 100	101 21 7.72 2,890 78 228 97	506 40	8.78	1 30	
<b>\$1 26.5</b>	95,806 71	\$101,803,7 <b>9</b> 0 13	\$4,475 24		69.91				<u> </u>	

#### 11.—TRAIN MILEAGE AND TRAFFIC. (ENTIRE SYSTEMS.)

Road No.	Railroads.	Passenger trains, miles.	Freight trains, miles.	Total for trains earning revenue.
1 3 5 8	Ann Arbor. Au Sable & Northwestern Boyne City & Foutheastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	427,218 27,800 7,030 191,595 1,093,067	506,995 109,860 18,780 67,059 2,063,666	934,218 137,160 25,880 291,766 3,963,036
10 12 18 14 16	Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw	7,904,716 9,732,602	27,810 13,1 8,992 15,682,502 751,463 401,623	84,894 22,061,048 26,304,524 1,543,448 980,837
17 18 19 20 23	Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwankee Detroit, Lansing & Northern System Detroit & Mackinao	65,021 5,594,936 441,555 656,708 137,400	40,486 6,074,751 267,252 490,600 200,210	109,048 11,671,087 910,803 1,147,308 401,600
24 25 26 27 30	Duluth, South Shore & Atlantic	670,550 1,020,704 19,093 893,764 26,190	761,444 1,122,794 16,899 774,399 157,169	1,496,239 2,231,282 35,992 1,754,236 183,359
31 33 42 43 44	Indiana & Lake Mich. (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings Manistee & Grand Rapids	52,800	33,286 7,391,380 4,400	92,546 12,046,719 88,880 20,000 21,477
45 46 48 49 50	Manistee & Northeastern and Supplementary	89.580	87,111 24,600 13,000 52,939 5,741,905	203,193 64,180 30,000 193,298 10,487,358
65 66 67 68 69	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Munising. Pontiac, Oxford & Northern. Saginaw, Tuscola & Huron.	89,970 959,410 65,193 87,366	58,574 1,398,218 8,914 38,242 42,777	98,544 2,598,291 12,790 164,735 180,143
70 78 77 78 79	Saginaw Valley & St. Louis System South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	56,434 48,290	6,968 176 51,114 5,705,280	28,384 61,220 147,248 99,404 10,485,568
2 4 5 6 7 8	ORE AND FOREST ROADS.  Crawford & Manistee River F.ecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake		X.MID	10,600 54,000 18,150 8,900
	Total	45,526,886	63,474,414	118,057,984

#### 11.-TRAIN MILEAGE AND TRAFFIC.-CONCLUDED.

Through passengers, number.	Local pastengers, number.	Total passengers, number.	Total passengers previous year, number.	Passengers carried 1 mile, number.	Passengers carried 1 mile, previous year, number.	Road No.
158 41,232 68,606	303,844 1,740 180,268 1,129,778	304,002 8,976 1,740 221,500 1,198,384	253,399 8,378 3,000 328,039 1,314,028	10,689,160 12,180 5,160,109 47,545,643	10,809,779 8,273 21,000 6,270,601 55,823,900	1 8 5 8
2,970 178,866 113,745 5,026 16,742	38,225 7,152,050 14,282,239 761,811 817,331	41,195 7,330,916 14,395,984 766,837 334,078	46,237 7,411,530 15,438,390 851,099 309,257	684,179 262,766,915 851,253,583 24,972 288 8,812,476	788,610 259,568,631 859,785,067 27,711,322 7,428,138	10 12 13 14 16
7,169 336,902 3,025 19,609	57,053 4,840,265 547,933 646,273	64,222 5,177,167 550,958 665,882 73,207	70,953 5,534,240 588,809 648,889 69,467	1,569,335 189,843,185 16,016,951 22,161,889 3,278,209	1,586,384 201,742,675 17,467,842 20,759,054 2,482,956	17 18 19 20 23
47,173 28,404 18,523 49,975	321,278 948,923 15,047 908,344 60,619	368,451 977,827 33,570 958,319 60,619	355,979 1,070,197 30,040 1,081,040 55,499	17,234,390 28,099,819 144,139 28,257,233 373,266	15,422,530 30,009,707 148,471 29,464,357 352,998	24 25 26 27 30
2,975 95,312 925	29,568 4,421,575 27,807 15,900 1,903	32,543 4,519,887 28,732 15,900 1,903	30,702 4,627,175 16,630	802,832 211,120,596 797,336 111,300 45,676	792,057 210,966,572 116,410	31 33 42 43 44
8,163 21 220,467	66,467 11,500 4,131 80,415 2,343,592	74,680 11,500 4,181 80,436 2,564,059	85,753 11,433 6,433 87,277 2,663,141	1,730,876 230,000 70,227 1,138,479 156,317,124	1,911,382 251,526 77,196 1,142,636 163,092,848	45 46 48 49 50
40,383 499 6,034	125,625 234,904 11,552 61,251 55,850	125,625 275,237 11,552 61,750 61,884	108,771 248,947 67,285 54,575	1,217,721 22,143,538 86,896 1,369,609 1,653,178	977, 738 19,991,818 1,472,881 1,515,615	65 66 67 68 69
230 349 1,402	21,756 33,062 81,231 20,228	21,986 38,062 31,580 21,630 3,270,701	88,433 32,871 43,597 12,027 3,591,541	417,897 462,868 726,387 389,350 142,660,692	1,678,535 388,625 1,074,151 333,451 155,633,078	70 73 77 78 79
	828	328	489	6,560	10,802	2 4 5 6 7 8
1,817,885	40,111,666	44,782,385	47,243,450	1,562,353,996	1,608,584,611	

#### 12.-TRAFFIC.-ENTIRE SYSTEMS.

Road No.	Railroads.	Average distance traveled by each passenger.	Average fare paid by each passenger.	Average through rate per mile.
1 3	Ann Arbor Au Sable & Northwestern	35.09	\$0 75.07	\$0 02.05
3589	Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	7 23.30 <b>39</b> .70	30 55.39 64.98	02.34 01.50
10 12 18 14 16	Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern Chicago & West Michigan Cincinati, Jackson & Mackinaw	16.61 35.84 24.39 32.56 26.38	48 80.91 50.39 69.72 51.17	02.70 . 02.35 . 02.19 . 01 . 02.06
17 18 19 20 23	Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit. Grand Haven & Milwankee Detroit, Lansing & Northern System Detroit & Mackinac	24.40 36.70 29.1 82.11 44.78	53.96 74 66.28 71.72 1 03	01.98 01.98 02.11 02.61
3 7 3 8 5 K K	Duluth, South Shore & Atlantic. Flint & Pere Marquette. Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids & Indiana System Hancock & Calumet	46.77 28.75 4.29 29.48 6.15	1 28.04 60.76 12.63 64 19.48	02.45 01.95 02.97 02.01
1 2 2 3 4	Indiana & Lake Mich. (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings Manistee & Grand Rapids	25 46.7 27.7 7 24	52 1 00 32 18 55	02 02.07 01.2
56883	Manistee & Northeastern and Supplementary Manistique Mason & Oceana Michigan Air Line Railway Michigan Central System	20	51.5 80 40 37.91 1 38	02.2 02.60 02.05
455578	Midland & Northern	9.69 80.45 7.5 22.1	24.78 1.73 30 55.7	01.89
903789	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	26.71 19 14	57.89 52.08 41 58.14 55 91.30	02.06 02.71 02.85 02.78
	ORE AND FOREST ROADS.			
2 4 5 6 7 8	Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	20	60	
-	Total	84.88	\$0 74.87	

12.-TRAFFIC.-CONCLUDED.

Average local rate per mile.	Average rate per mile for all passengers.	Tons of through freight moved.	Tons of local freight moved.	Total tons of freight moved.	Total tons of freight moved previous year.	Boad No.
\$0 02.15	<b>\$</b> 0 02.16	118,889	851,674	970,068	976,148	1 8 5 8
04.28	04.28	140,000 526	36,499	140,000 37,025	59,375 39,382	5
02.40	02.37	36,742	280,405	287,147	382,390	8
01.77	01.64	1,055,651	682,754	1,688,405	1,550,202	9
02.60	02.6	42,068 2,725,525	18,706 9,234,270	60,774	45,761 11,851,945	10
02.24	02.25	2,725,525	9,234,270	11,959,795 15,772,642	11,351,945	12 18
02.05	02.06	380,104	15,892,538	15,772,642	16,215,091	18 14
02.17	02.14	22,375 135,880	1,152,852	1,174,727	1,205,263	16
01.93	01.94	135,880	519,978	655,858	612,684	
02.29	02.21	40,134	104,995	145,129	159,669	17
02.04	02.01	4,558,094	3,483,454	8,041,548	8,848,275	18
02.29 02.23	02.28	95,815	432,879	528,694	507,045	120
02.28	02.24 02.30	86,841	497,444 423,836	584,285 433,836	595,750 485,107	19 20 28
				1	1	1
02.88	02.78	505,675 575,748	1,832,722	2,338,397	2,181,288	24
02.12	02.11	575,748	1,030,130	1,605,878 746,704	1,528,694	25
02.93	02.11 02.94 02.16	745,528 167,759	1,176	746.704	919,555	20
02.18 03.16	02.16 03.16	107,759	1,438,112 1,118,960	1,605,871 1,118,980	1,681,419 1,089,002	24 25 26 27 30
			1		1	
02.1	. 02.1	92,931	31,081	124.012	119,396	31 33 42
02.16 01	02.14 01.1	2,229,614 68,433	11,432,805 8,706	13,662,419 72,189	14,382,641	49
02.57	02.57	00,100	13,543	18,543	12,745	43
	02.4		64,275	64,275	57,268	43
02.2	02.2	16,115	243,149	259,264	842,907	45
04	04		188,595	188.895	188,191	48
03	03		188,595 22,876 200,531	22,876	30,000	48
02.67	02.67	18,375	200,531	1 213,906	188,191 30,000 271,068	49
02.40	02.26	1,828,489	5,452,831	7,276,270	7,470,951	50
					8,500	64 65 66
02.55	02.55		124,025	124,025	107,387	65
02.41	02 05	946,409	1,169,248	2,115,657	1,783,763	67
03.9 02.53	08.9 02.51	1,686 2,851	77,006 83,741	78,642 86,093	79,874	68
	_	l .	1	1	1	
02.18	02.16	23,484	71,782	95,266	114,642	69
02.73 03	02.73	258	19,208	19,466 8,275	68.822	70
02.54	03 02.53	11,511	8,275 68,598	80,109	7,876	69 70 78 77
03.11	02.33	58,971	65,474	119,445	82,878 96,822	79
	02.09		5,879,674	5,879,674	6,051,392	78 78
	 	81,147		81,147	24,227	2
		.	1,459,622	1,459,622	1,413,860	1 4
		299,854	202	299,556		5
		11,218		11,218		9
08	03	555,548	51,400	51,400 555,548	74,806 495,401	2 4 5 6 7
	\$0 02.13	17,608,638	63,179,851	82,788,489	88,618,352	1

#### 13,-TRAFFIC.-ENTIRE SYSTEMS.

			Mile	age.	
Road No.	Railroads.	Through freight.	Local freight.	Total or tons moved one mile.	Moved one mile previous year.
1 3 5 8	Aun Arbor Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	35,374,633 3,6 <sup>5</sup> 2 2,094,337 347,694,231	71,277,671 547,485 5,213,687 87,395,040	106,652,304 551,167 7,308,024 435,089,271	99,360,425 48,376 506,260 11,865,514 389,610,957
10 12 18 14 16	Chicago, Kalamazoo & Saginaw	673,781 542,859,753 140,524,012 2,663,065 12,669,086	419,467 1,755,486,904 2,190,768,692 89,932,136 53,018,589	1,098,248 2,298,346,657 2,331,292,704 92,595,201 65,717,675	814,044 2,119,705,624 2,108,592,211 86,412,218 56,888,321
17 18 19 20 23	Cincinnati, Saginaw & Mackinaw	2,127,102 909,744,481 18,108,078 18,032,699	8,192,675 381,494,246 23,588,871 39,687,556	5,319,777 1,291,238,727 41,696,949 52,720,255 16,485,768	5,815,705 1,403,341,030 36,947,322 51,944,882 14,358,531
24 25 28 27 30	Duluth, South Shore & Atlantic	76,314,805 108,219,125 4,159,292 18,118,856	85,453,347 80,009,447 7,056 135,597,762 6,517,866	111,768,152 188,228,572 4,166,348 153,716,618 6,517,866	106,192,449 162,843,175 4,776,516 173,932,708 6,541,289
31 33 42 43 44	Indiana & Lake Mich. (Op' by T. H. & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings Manistee & Grand Rapids		1,011,514 1,630,544,449	266.784	4,349,919 2,475,757,176 89,215 1,058,405
45 46 48 49 50	Manistee & Northeastern and Supplementary Manistique Mason & Oceana Mishigan Air Line Railway Michigan Central System		10,685,277	8,552,560 5,026,585 297,388 12,103,027 1,480,251,521	9,506,809 5,432,493 660,000 15,934,056 1,487,989,830
65 66 67 68	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron	221,415,344 9,816 216,602 798,210	1,024,921 239,607,237 958,576 2,663,520 2,744,075	1,024,921 461,022,581 968,392 2,880,122 8,542,285	970,202 401,682,823 2,557,605 3,646,090
70 73 77 78 79	Saginaw Valley & St. Louis System. South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	11,610 1,321,554 1,786,440	420,755 2,812,158 1,386,918	482,365 182,050 4,133,712 3,178,358 1,142,477,577	1,561,026 168,348 4,092,296 2,156,432 1,195,942,921
2 4 5 6 7 8	ORE AND FOREST BOADS.  Crawford & Manistee River	6,133,769	2,988	10,947,185 6,136,757 112,130 3,333,258	242,270 10,614,550 
_	Total			<del></del>	12,472,884,620

13.—TRAFFIC.—CONCLUDED.

		<u> </u>						
	Ton haul.				Rates.			
Through miles.	Local miles.	All miles.	Average amount each ton hauled.	Per ton per mile, through.	Per ton per mile, local.	Per ton per mile, all.	Average per ton per mile, previous year.	Road N .
298.8	83.7	109.9	\$0 74.62	\$0 00.24	\$0 00.89	\$0 00.67	10 00.69	!
7 57 829.4	15 22.63 138.1	14.9 27.86 257.7	49 88.78 1 43.58	03 01.33 00.46	03 01.19 00.93	08 01.23 00.56	08.2 00.92 00.52	8
16.01 199.18 370 119.02 93.5	22.42 190.11 142 78.04 102	17.98 192.17 148 78.82 100.2	51 1 90.23 1 47 84.55 71	08 00.75 00.82 00.86 00.61	02.2 01 01 01.07 60.78	02.8 00.69 00.99 01.07 00.71	03.2 01.03 01.07 01.19 00.78	10 12 18 14 16
53 199.6 189 151.57	30.4 109.5 54.5 76.23	36.7 160.6 78.9 86.79 38	60.42 99.81 93.64 1 00.95	01.13 00.5 00.43 00.89	02 00.91 01.77 01.25	01.65 (0.62 01.19 01.16 02	01.61 00.63 01.32 01.18 02	17 18 19 20 22
150.90 187.96 5.58 108	19.34 77.66 6 94.29 5.82	47.79 117.21 5.58 95.72 5.82	55.82 86.44 5.53 82 14.72	00.76 00.88 00.97 00.72	02.04 01.21 11.90 00.87 02.52	01.16 00.73 00.99 00.85 02.52	11.17 00.83 00 98 00.52 02.76	24 25 26 27 30
35.25 334.8 13	82.54 142.6 9 7 25.46	34.57 173.9 5 7 25.46	88 95.5 26 55 53	01.02 00.47 01.6	01.30 00.58 04.8 07.8 02.06	01.09 00.54 05.2 07.8 02.06	01.04 00.58 07.4 03.46	31   33   42   43   44
27 106 426	33.4 26.61 53.28 129	33.4 26.61 56.58 199	60 55.9 50 49.60 1 29	02.5 02 00.64 00.51	01.8 02.1 02 00.90 00.76	01.8 02.1 02 00.87 00.63	01.6 02.2 01.7 00.81 00.61	48 48 48 50
234 6 92.1 33.98	8.26 205 12.44 31.8 38.22	8.26 218 12.31 33.4 37.18	59.22 1 39 40 87.4 71.74	00.53 07 01.44 02.28	07.16 00.74 03 02.71 01.82	07.16 00.64 08 03.61 01.92	08.20 0 .62 02.54 01.92	68 66 67 68
45 115 33.10	21.90 41 21.03	22.21 22 51.6 26.58 194.8	44.20 1 28 78.83 74 183.98	03.21 00.90 01.9	01.95 06 01.76 03.8	01.99 06 01.49 02.8 00.68	02.32 04 01.54 03.4 00.69	70 78 77 78
10		10	24.6	02.4		02.4	02.4	2
20.50 10	14.8	20.48 10	27 21.8	01.8	02.3	01.3		4
226.9	115.89	153.86	\$1 20.7			10 00.784	-	

#### 14.—TONNAGE AND COMMODITIES MOVED.—ENTIRE SYSTEMS.

Koad No.	Railroads.	Agricultural products. Tons.	Animal products. Tons.	Products of mines. Tons.
1 2	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern	149,895 10	15,125	316,866
2358	Au Sable & Northwestern  Boyne City & Southeastern  Chicago, Detroit & C. G. T. Junction	524 80,153	99 22,224	44,176
9			499,383	160,778
10 12	Chicago & Grand Tronk Chicago, Kalamazoo & Saginaw Chicago, Milwaukee & St. Paul	3,862	1,201	29,80
13 14	Chicago & Northwestern Chicago & West Michigan	2,896,598 196,286	1,011,601 20,079	6,210,141 155,401
16 17	Cincinnati, Jackson & Mackinaw	107,538 15,610	21,930 2,980	298,405 39,815
18	Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis	4,148,818	547,212	2,411,469
20 19	Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System	207,309 129,765	28,762 24,580	79,222 78,300
23	Detroit & Mackinac	6,128 126,141	5,709	4,500 1,419,89
25	Flint & Pere Marquette	495,533	15,885 31,048	175,500
23 24 25 26 27	Flint & Pere Marquette Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids & Indiana System	4,273 278,650	338 20,568	731,576 <b>24</b> 1, <b>89</b> 2
00 11 33	Hancock & Calumet	2,686 55,114	81 906	882,496 19,853
3	Lake Shore & Michigan Southern System	2,045,192	890,011	6,676,014
2 3	Lima Northern Lowell & Hastings	18,108 4,889	1,178 <b>974</b>	87,26 1,08
4 5 6	Manistee & Grand Rapids	280 6,523	20 1,408	58: 6,490
8	Mason & Oceana Michigan Air Line Railway	350 65,422	60 3,554	27,479
50 55	Michigan Central System	1,433,832 16,684	664,355 2,707	1,599,47
6 1	Minneapolis, St. Paul & Sault Ste. Marie	818,050	26,414	54,087 430,080 1,701
17 18	Mineral Range. Minesapolis, St. Paul & Sault Ste. Marie. Munising. Pontiac, Oxford & Northern	1,608 87,634	209 4,197	1,701 12,36
0 3	Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System	18,449 1,190	2,434 241	46,177 1,891
3	South Haven & Eastern	4.074	43	684
8	Toledo, Saginaw & Muskegon	34,715 4,278	3,053 338	9,068 781,570
9	Wabash	1,611,494	660,764	1,702,640
	ORE AND FOREST ROADS.			
2 4 5	Crawford & Manistee River Heela & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	533		1,429,591 299,330
6	Lewiston & Southeastern			
8	Quincy & Torch Lake	••••••		
	Total	15,493,891	4,531,066	26,863,511

## 14.—TONNAGE AND COMMODITIES MOVED.—Concluded.

Forest products. Tons.	Manufac- tures. Tons.	Mer- chandise. Tons.	Other com- modities. Tons.	Total tonnage.	Total tonnage previous year.	Freight originating on this road. Tons.	Boad No.
288,459 187	115,249 58	36,800	46,669	969,068 255	976,143	382,931 255	1 2
140,000 36,089 22,897	205 14,813	40 17,587	60 63,297	140,000 37,025 267,147	59,375 39,332 882,390	140,000 86,499 174,836	1 2 3 5 8
103,905 4,169	81,006 8,828	181,586 7,155	241,649 10,756	1,688,405 60,774 11,959,795	1,550,202 45,261	432,871 21,831	10
1,873,073 517,582	1,611,281 105,841	1,044,025 118,118	1,125,923 61,920	11,959,795 15,772,642 1,174,727	11,351,945 16,215,091 1,205,263	11,959,795 13,544,398 869,807	12 13 14
86,237 66,763 878,227 58,690 228,792	86,535 6,373 1,140,672 32,790 52,890	21,280 8,059 937,397 68,086 37,890	34,033 5,529 200,013 53,834 28,050	655,959 145,129 10,263,807 528,694 580,275	612,684 159,669 8,848,275 507,045 595,750	226,713 122,826 148,818 216,313 410,795	16 17 18 19 20
393,131 524,626 418,539 6,967 807,297	18,809 52,557 126,993 2,028 224,680	658 67,985 162,441 819 13,852	4,900 131,809 195,819 704 24,487	483,896 2,838,397 1,605,878 746,700 1,605,871	435,107 2,131,288 1,359,710 1,492,582	433,836 2,089,626 1,040,356 846,533	25 24 25 26 27
25,280 27,611 699,312 5,750 2,920	4,580 10,142 2,208,218 3,881 284	7,665 6,689 502,548 5,960 2,612	196,252 3,695 641,112	1,118,980 124,012 18,662,407 72,139 13,543	1,062,782 101,849 12,114,256	1,118,980 31,081 4,213,629 28,830 8,022	30 31 32 42 42
63,312 233,987 184,623 22,221 83,375	19 6,389 45 18,056	36 1,827 4,272 200 35,621	2,569 	64,275 259,183 188,895 22,876 213,906	60,110 231,609 106,656 50,000 297,595	60,494 249,777 188,895 22,876 148,617	44
1,405,712 7,212 661,923 68,655 16,816	1,475,225 9,726 78,343 5,602 4,688	20,118 71,879 867 9,954	697,869 13,491 29,488	7,276,470 124,025 2,115,657 78,642 86,092	6,175,215 125,615 1,975,543	8,492,349 124,025 1,624,196 59,559 61,879	50 60 60 60
19,919 18,164 1,580 16,287 6,967 404,488	638 625 6,938 2,023 871,231	1,221 1,269 2,786 819 408,215	7,412 7,412 704 721,836	95,284 19,466 8,275 80,209 746,700 5,879,674	131,977 60,936 8,211 92,195 666,062 5,541,780	90,875 11,503 5,556 66,886 719,133 5,879,674	66 70 78 78
81,147 24,920 211,213 50,000 555,543	5,017	18 1,400	561	81,147 1,460,622 299,556 11,213 51,400 555,543	21,789 1,870,592 108,014 454,788	31,147 1,559,622 291,015 11,213 50,000 555,543	4
11,049,209	7,883,717	8,758,678	4,591,098	85,629,499	68,219,786	52,905,215	

#### 15.-EQUIPMENT.

Road No.	Railroads.	Retimated value.	Locomo- tives, ail classes.	Passenger care, all classes.	Baggage, mail and express cars.
1 2 3 5 8	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	\$600,071 97 13,607 07 7,400 00	48 1 21 2	23 2 1	5
9 10 12 13 14	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw ('hicago, Miwaukee & St. Paul. Chicago & Northwestern Chicago & West Michigan	1,264,650 00 80,500 00 16,282,650 00 1,041,550 00	130 4 844 1,010 77	80 2 413 580 46	19 2 287 150 27
16 17 18 19 20	Cincinnati, Jackson & Mackinaw	426,700 00 94,570 00 6,936,600 00 458,700 00 573,050 00	34 6 459 29 47	28 12 270 84 51	6 2 97 11 18
23 24 25 27 80	Detroit & Mackinac Daluth, South Shore & Atlantic Flut & Pere Marquette Grand Rapids & Indiana System Hancock & Calumet	285,690 00 1,858,900 00 1,481,620 00 1,453,800 00 159,600 00	20 94 103 68 8	9 37 93 69 4	6 12 24 22
83 42 43 44 45	Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary.	10,175,138 00 15,000 00 9,000 00 50,251 40 144,959 02	548 11 2 2 8	327 6 1	96 3 2
46 47 48 49 50	Manistique & Northwestern	69,877 66 11,050 00 50,000 00 8,700 00 8,420,537 00	8 2 7 461	1 1 262	1 110
64 65 66 67 68	Midland & Northern	1,000 00 129,400 00 3,055,075 32 91,500 00 118,845 55	1 8 104 3 6	8 45 1 7	1 2 23
69 73 74 77 78 79	Saginaw, Tuscola & Huron. South Haven & Reastern St. Clair Tunnel Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	99,750 00 12,900 00 14,800 00 89,840 00 277,525 00 4,112,000 00	10 8 4 6 7 418	13 7 2 2 2 217	3 1 4 110
1 2 4 5 6 7 8	ORE AND FOREST ROADS.  Bear Lake & Eastern. Crawford & Manistee River. Heela & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern. Manistee & Luther Quincy & Torch Lake	80,215 72 9,150 00 209,510 00 280,930 31 4,275 00 69,775 00 84,050 00	3 1 11 11 2 6	1	
	Total	\$60,541,414 02	4,647	2,610	1,049

15.—EQUIPMENT.—CONCLUDED

		D3 - 44		0	All		Number	Cars equip	ped with	
Box freight cars.	Stock cars.	Platform and coal cars.	Ore and coal cars.	Con- ductor's way cars.	other kinds of cars	Total cars.	locomo- tives equipped with train brake.	Passenger.	Freight.	Road No.
1,337		404 15		26 1	14 34	1,809 50	42	23	727	1 2
8 1	8	12			313 33	340 35	21 1	1		1 2 3 5 8
148 2 19,014 20,269 1,759	2,503 2,881 25	145 10 5,884 6,895 1,034	310 4,851	68 1 491 546 81	10 15 152 239 45	430 82 28,554 35,911 2,967	190 4 760 998 74	49 4 768 894 73	16 1 9,800 24,195 846	9 10 12 13 14
1,044 30 8,648 362 514	18 638 25 43	231 65 1,660 196 686	111	14 2 211 21 28	3 1 382 51 12	1,458 112 18,101 700 1,852	34 6 437 29 47	31 14 367 45 69	1 3,894 24 13	16 17 18 19 20
95 1,143 1,729 1,352 16	44 49	381 580 1,153 1,363 99	1,823 69 166	5 30 46 52 8	252 20 476 39 1	748 3,145 3,565 3,015 289	20 71 63 63 7	14 49 117 92 4	160 6 9 6 580	23 24 25 27 30
11,813 4 8	759	2,247 5 90 275	4,994	284 2 5	142	20,464 9 6 96 296	548 1 2	425 9 1	12,480 96 1	88 42 43 44 45
1 1 18 8,295	1,039	95 30 60 5 3,103	175 834	5 253	40 33 191	140 63 250 23 13,587	396	372	5,025	46 47 48 49 50
4,430 46	101	2 69 705 145 61	150	2 78 2 1	12 31 185 50	15 198 5,662 193 120	8 103 3 6	9 68 1 8	471 185	64 65 66 67 68
25 11 80 469 6,165	1,085	95 13 52 110 5,189		3 9 2 2 225	50 1 4 83	189 33 9 140 587 18,024	10 2 4 6 5 402	16 4 6 2 327	10 2,117	69 78 74 77 78 79
4	30	53 84 45 20 80 10 8	380 400 50	3 4 1	14 2 4 9 1 231 2	68 36 467 433 31 245 60	ii		420	1 2 4 5 6 7 8
88,429	9,212	32,865	14,008	2,451	8,428	154,032	4,818	8,879	61,147	

#### 16.-STATIONS AND EMPLOYÉS.

No.		Stat	ions.	Emp	loyés.
Road	Railroads.	Total.	In Michigan.	Total.	In Michigan.
1 2	Ann Arbor	68 13	64 13	869 25	747
3 5 8	Au Sable & Northwestern  Boyne City & Southeastern  Chicago, Detroit & C. G. T. Junction	22 6 12	22 6 12	153 24 327	25 153 24 327
9	Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw		46 12	2,914	1,947
12 13 14	Chicago Milwaukee & St. Paul Chicago & Northwestern. Chicago & West Michigan	895 746 108	24 46 101	20,216 20,745 1,474	121 1,389 1,419
16 17	Cincinnati, Jackson & Mackinaw	93 21	37 21	817 124	299 124
18 19 <b>2</b> 0	Cleveland, Cincinnati, Chicago & St. Louis.  Detroit, Grand Haven & Milwaukee  Detroit, Lansing & Northern System	521 44 80	8 44 80	9,432 1,253 1,146	1,242 1,142
23 24	Detroit & Mackinac Duluth, South Shore & Atlantic	53 52	53 48	331 1,572	831 1,445
23 24 25 26 27	Flint & Pere Marquette	139 2 159	138 2 122	2,070 28 2,265	2,065 28 1,971
80 81	Hancock & Calumet	6 10	6	91 61	91 54
33 42 43	Lima Northern Lowell & Hastings.	340 16 3	124 1 8	13,893	1,745
44 45	Manistee & Grand Rapids Manistee & Northeastern and Supplementary Manistique	2 21	2   21	38 179	88 179
46 48 49	Mason & Oceana Michigan Air Line Railway	6 20	6 20	30 30 154	30 80 154
50 64	Michigan Central System	506 2	325 2	9,495	6,204
65 66 67	Midland & Northern Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising	115 8	18 3	2,082 . 46	108 423 46
68 69	Pontiac, Orford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System South Hayon & Eastern	22 17	22 17	100 97	100 97
70 78 74	Saginaw Valley & St. Louis System. South Haven & Eastern. St. Clair Tunnel.	13 9	13 9	55 44 55	55 44 19
75 77	St. Joseph Valley Toledo, Saginaw & Muskegon Wisconsin & Michigan	4 26	4 26	16 123	16 123
77 78 79	Wisconsin & Michigan Wabash	9 466	3 16	95 7,678	25 333
1	ORE AND FOREST ECADS.	5	5	11	11
1 2 4	Rear Lake & Eastern Crawford & Manistee River Hecla & Torch Lake	2	2	18	18 88 81
4 5 6 8	Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Quincy & Torch Lake	3 2 2	3 2 2	88 85 <b>39</b> 87	81 39 57
	Totals	4,759	1,564	100,598	25,136

#### 16.—STATIONS AND EMPLOYÉS.—CONCLUDED.

Baggage- men.	Brake- men.	Con- ductors.	Engineers.	Firemen.	Laborers.	Shopmen.	Yardmen.	Others.	Road No.
6 1 1 9	57 1 11 2 20	28 1 11 2 14	*46 1 15 2 25	46 1 15 2 25	203 17 85 10 56	214 1 7 2	8 1 88	255 8 2 140	1 2 3 5 8
36 1 8 403 12	225 1 5 1,474 70	100 2 4 799 41	134 2 4 1,177 66	134 2 4 1,305 67	830 21 75 5,036 509	4,868 82	92 2 3 785 47	739 21 23 5,398 625	9 10 12 13 14
12 1 80 24 9	51 5 514 50 59	26 2 265 26 27	33 6 427 43 45	33 7 437 47 47	245 37 2,450 444 447	186 5 1,625 152 86	5 8 629 36 32	226 53 2,995 431 394	16 17 18 19 20
5 22 22 2 2 24	82 82 121 2 131	14 41 65 2 62	17 62 92 2 92	17 63 97 10 98	188 504 836 2 520	61 179 211 4 306	2 51 78 4 148	50 568 555 889	23 24 25 26 27
196	12 4 702	6 3 351	607 1	6 4 637	25 14 2,728	2,019	978	25 10 5,677	30 81 33 42 43
2 1 3	4 11 6 5 18	2 7 8 1 9	2 7 8 4	2 7 8 4	20 41 1 13 70	. 13 . 10 . 2 1	2 2 1 1 8	2 89 1 47	44 45 46 48 49
77 2	570 5 33 6	307 1 3 13 8	494 1 5 28 8	516 1 5	2,818 12 100 15	882 24 32 2	696 2 19	3,635 45 203 14	50 64 65 66 67
2 2 1 1	4 4 1 10	3 4 8 2 5	8 5 3 2 6	3 5 8 1 6	32 81 19 24 5	17 18	1	36 28 22 9 23	68 69 70 73 74
2 1 12	1 7 8 36	1 4 4 24	1 4 5 20	1 5 5 20	6 51 44 139	6 21 26	1	43	75 77 78 79
	1 18 1 1 2	1 6 5	2 1 6 5	2 1 6 5 1 2	13 30 30 30 35 20	1 1 4 5	8 15 1 3	10 20	1 2 4 5 6 8
987	4,382	2,806	8,582	8,711	18,302	11,221	3,756	28,374	

#### 17.-PERMANENT WAY.

			Bridge s	tructu	res.
	Railroads.	V	rooden.	Stor	ne or iron.
ROBG NO.		No.	Length,	No.	Length,
1	Ann Arbor	8	116	30	2,06
2	Arcadia & Betsey River	4 2	800		
2858	Boyne City & Southeastern	2	88		
8	Boyne City & Southeastern			6	79
9	Chicago & Grand Trunk	l	l	22	2,02
0	Chicago & Grand Trunk Chicago, Kalamasoo & Saginaw Chicago, Milwankee & St. Paul Chicago & Northwestern	38	1,430	1	
2	Chicago, Milwaukee & St. Paul	88	586 2,690	13	1,86
3	Chicago & West Michigan	97	686	22	2,80
6	Cincinnati Taskson & Maskinsw	1	144	1	5
7	Cincinnati, Jackson & Mackinaw	l i	299	18	9
8	Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis				
9	Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System		458	25 26	8,15 2,70
	•	. ·	1	i	· '
3	Detroit & Mackinac	80	764	8 8 29	1,55
5	Flint & Para Margnetta	10	2,174 623	20	58 8,72
34 5 8 7	Flint & Pere Marquette	5	1,487	1 2	22
7	Grand Rapids & Indiana System	8	615	21	1,87
0	Hancock & Calumet	16	2,291	3	56
12	Indiana & Lake Michigan (Op'd by Terre Haute & I.)	23	5,228		
3	Hancock & Calumet Indiana & Lake Michigan (Op'd by Terre Haute & I.) Iron Rape & Huron Bay Lake Shore & Michigan Southern System.	16	1,963	68	4,12
2	Lima Northern				
3	Lowell & Hastings	10	670		l
4	Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary	1	105		
5 6	Manistee & Northeastern and Supplementary	14 2	600 225		
8	Manietique Mason & Oceana	8	450		
9	Michigan Air Line Railway	1	80	2	14
0	Michigan Central System	7	372	871	11,36
4	Midland & Northern	5			
5	Mineral Range Minneapolis, St Paul & Sault Ste. Marie	13	1,725 2,449		
_		١ .	· ·		
8	Ponting Oxford & Northern	8 27	456 1,370		
923	Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron. Sault Ste. Marie Bridge Co.	12	576	1	7
2	Sault Ste. Marie Bridge Co. South Haven & Eastern		750	1	1,90
	South Haven & Pastern	8	750		
5	St. Joseph Valley Toledo, Saginaw & Muskegon		<u></u>		
7 8	Toledo, Saginaw & Muskegon	4	375	····i	
9	Wisconsin & Michigan	33	326	i	18
1	The Fort Street Union Depot Co.				
	ORE AND FOREST BOADS.				
,	Bear Lake & Eastern	3	96		
1457	Hecia & Torch Lake Lake Superior & Ishpeming				
5	Lake Superior & Ishpeming	8	1,893		
8	Manistee & Luther Quincy & Torch Lake	3	150		
_	4				
	Total	385	35,120	666	41,91

#### 17.-PERMANENT WAY.-CONCLUDED.

			Bridge at	tructu	r <b>e</b> s.			Railre	oad cros	sings.	
oml	bination.	т	restles.	Dra	w bridges.		Total.	At grade.	Over or under.	Total.	١,
<b>s</b> .	Length, feet.	No.	Length, feet.	No.	Length,	No.	Length, feet.	No.	No.	No.	
3	343	55	3,813			91	6,366	11	1	12	Γ
-	· · · · · · · · · · · · · · · · · · ·	8	3,800			10	4,600	i		1	
-	· · · · · · · · · · · · · · · · · · ·	ļ		1	123	2 7	98 915			<del>-</del>	l
	••••••			_	120	1					l
-		42	1,332			64 38	8,357 1,430	11 3	1	12 3	ı
		130	12,53)			140	13,806	17	i	5	l
4	701 <b>6</b> 88	303 164	12,53) 27,089 19,732	6	803	140 358 203	1,430 13,806 32,347 24,712	17	1 8 1	3 5 25 18	
• [	<b>V</b> 000			۰	000	1					١
2- -	281	177 80	15,990 3,508	8	380	179 39	16,193 4,540	6 9	3	9 9 2 13	1
.		30 31	1,878	I		31	1.878		2	2	ı
-		87 74	2,616 5,219	2	135	64 107	5,903 8,384	12	1	13 9	l
		l	1			1		_		_	l
1	477	25 231	2,852 39,680	1 1	220 32	39 270	5, <b>866</b>	3	10	8 84	
ġ- -	939			1	669	52	42,425 5,959	24 82 3		84 35	1
9 2 7	150 1,075	141	11,052			177	1,8·5 14,120	23	3 4 1	7 24	
	-,					1 1	Į.		1		
-		5 23	1,178 1,905			24 23 23	4,031 1,905	2	1 1	3 1	l
-	• • • • • • • • • • • • • • • • • • • •		<b></b>			23	1,905 5,228				1
-		68	9,448 434	2	307	154	15,843 434	40	2	42 1	ı
-		_				1		2			ı
2 ·	56	1	75			10	670 236	3	1	. 2	l
i -	300			1	160	15 8	760	6 1		4 6 1	t
-	<b>200</b> 0					8	236 760 525 450	1			1
		59	4,386			62	4,587	ء ا		6	1
i	900	600	30,066	7	1,093	986	48,793	6 48	8	56	l
-		;-	162	i	180	10	2,067	2 3		56 2 3	
:: :		89	14,010			102	16,459	8	1	ğ	ĺ
		5	2,553	l		18	8,009	l	1	1	1
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:- :				1	35	1 1	688 1,900	8		8	
-	••••••					8	1,900 750	2		2	
_		11	1,529			11	1,529	<u></u>			١
-		70 6	1,529 6,837 303			74	7,212 688	7		7	1
ī -	194	84	4,768	i	184	120	5,656	8		8.	l
-		1	3,520			1	8,520				
-		3	766			6	862		<b>-</b>		ĺ
;- -	3,304	2	1,500 2,412			5 17	1,500 7,609	1 2	1 1	2 9	ĺ
.		3 5 2 1 9	60			4 1	7,609 210	3		2 3 2	
[		y	1,517			9	1,517	1	1	2	
4	9,408	2,495	238,000	31	4,301	3,621	828,772	340	55	395	-

#### 18.-PERMANENT WAYS.

			Renewal of
Road No.	Railroads.	With stone or iron pipe.	With sewer pipe.
1 2 8 9 12	Ann Arbor Arcadia & Betsey River Au Sable & Northwestern Chicago & Grand Trunk Chicago, Milwaukee & St. Paul		
13 14 16 18 19	Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee	4 1 70 7	1 22 4
2023	Detroit, Lansing & Northern System. Detroit & Mackinac. Duluth, South Shore & Atlantic Flint & Pere Marquette. Gogebic & Montreal River (Op'd by Wis. Cent.)		1: 4:
7 13 4 9	Grand Bapids & Indiana System Indiana & Lake Mich. (Op'd by Terra Haute & I.) Lake Shore & Michigan Southern System Manistee & Grand Rapids. Michigan Air Line Bailway	46	
07979	Michigan Central System Munising Saginaw, Tuscola & Huron Toledo, Saginaw & Muskegon. Wabash	16	
	ORB AND FOREST ROADS.		
1 5 6 7 8	Bear Lake & Eastern Lake Superior & Ishpeming Lewiston & Southeastera Manistee & Luther Quincy & Torch Lake		1
	Total	283	10

18.—PERMANENT WAYS.—CONCLUDED.

timber culv	verts.			New t	orid <b>ges.</b>			
With	Total	Wo	oden.	Iron o	or stone.		Total	
timber.	number renewed.	Number.	Length, linear feet.	Number.	Length, linear feet.	Total.	length, linear feet.	Boad No.
		i	50	13	721	13	721	1 2
12 6	24 18	8	227	2	471.5	1	50 698.5	1 2 8 9 12
28	31 27 5	37 9	2,773 604	i	70	37 10	2,778 674	18 14 16 18 19
40 2	115 14			1	110	1	110	18 19
5	13 6	8 2	· 66 820	1 6	1,117	4 8	76 1, <b>48</b> 7	20, 23, 24, 25, 26,
	66	12	628	4 2	474 227	16 2	1,102 227	25. 26.
9	<b>3</b> 0	7	456			7	456	27
35 1	1 81 10	1	75	14	982 71	14 1 1	982 75 71	27 81 33: 44 49
20	84 16	2 2	1,655 168	8	326	5 2	1,981 168	50: 67 69- 77 79:
11 2	11 10	1	10.5			1	10.5	77 79,
		1 1	66 1,898	i	3,804	1 2	66 5,197	1: 5 6. 7. 8.
171	562	82	8,991.5	49	7,888.5	181	16,875	

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Railroads.	Miles of road in Michigan upon which tazes are based.	Gross earnings as reported for Michigan.	Gross earnings per mile of road operated in Michigan.	Per cent of taxation on taxable ifoome,	Total taxes assessed for Michigan.	Taxes per mile of road operated in Michigan.
Northwestern Line Southeastern	296-73 17.50 108 8.00 16	\$1,026,167 27 6,022 84 59,385 09 19,205 35	88,458 28 844 16 840 38 1,200 33	Sieres	\$22, <b>686</b> 88 1,000 45 1,187 70	\$2 9 S
tion.	22.23	2,166,854 75 2,166,855 26 52,110 51	3,934 20 9,671 29 1,178 97	<b>38</b>	64,835 16 1,042 21 1,042 21	2527
Milwaukee & Propi	25.4-25.4.25.25.25.25.25.25.25.25.25.25.25.25.25.	177,936 81 00,906 91 1,411,696 91 123,753 12 820,061 03 124,885 35 131,064 72 977,890 97 1,189,643 83	24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	#2558 25 #1014104914916 15	3,559 17 20,7175 13 20,7175 13 20,7175 13 20,601 23 20,117 15 20,117 8 3258835528 8 325585353	
tlantic State Wis (	55555555888888 55588558 5588858	247,145,17 1,741,171,49 2,116,171,49 46,704,80 1,605,573,38 121,650,554 44,550,554 43,256,48 43,256,48	833 833 834 834 834 834 834 834 834 834	원조교환 급 대 대학학학 <b>교</b> 학교	4,912 90 45,778 86 45,298 16 1,004 16 1,474 00 4,400 06 863 76	### ##################################
lwe Range & Huren Hay Lage Shore & Michigab Southern System Detroit, Hersda et Suthwestern Detroit, Hersda et Suthwestern Detroit, Mayne & Jackson Fort Wayne & Jackson Kalau azies, A. egen & Grand Rapids Kalau azies, A. egen & Grand Rapids Kalau azies, A. egen & Grand Rapids Lima Asien & St. Louis Lima Northern Lowell & Hastings	\$\$ 55 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,082,970,48 38,551,70 88,3651,70 88,365,48 81,750,48 87,170,71 87,170,71 87,170,71 87,170,71 87,170,71 87,170,71 87,170,71 87,170,71 87,170,71 87,170,71 87,170,71	2. 2.1.2.2.2.1.1.2.2.2.2.2.2.2.2.2.2.2.2		2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3	2012884282047 4876162

c Special charter.

b Not operated.

8		100	2	92	1	26	2	28	38	22	2	-	28 	1.17		25		23					40,50		*** **********	19.4		90 988			12.8		10 829		77			\$65 13	
	2,834.28	88.0	148,070 68				m Ş	S 526 52	ĺQ.	877	2			1	Z	17,529 44		28 888 88	ន្ត្	***************************************			4.550 57			1,894 93	7	2.802 47	8,153 73		147 90		3.442 10		27 SH			\$742,074 68	
	N	646	39 39 39 39 39 39 39 39 39 39 39 39 39 3	194	100	8	<u>\$</u>	100	i o	2.13	64	N 4	8	2		22		<b>4</b> 2	63		00.0		8			<b>J4</b>	C6 ×	2.50	3.50		ę i	64	8.30	1 6 6 6 6 7 7 1 8 8	04 0		9.4	2.28	
271	1,961 57	188	19,250				50	_	8	Š	3	N.		,	S	2000	Ş	8	2			Š	108.623 7.				S		Ę.		410 85		:5		87 887			38,693 30	
84	116,713 28	14,846.81		8 8	3	S.	38		8	125	\$	O:	ğ		2	780,869 85	8	8	ž	**********	ş	8	116.576 75				1	8	31,		7,985 28	681	002	8	2,384 70	2	2	859, 209, 114 48	
		\$6.50 \$6.50	ន្ទីន			33	÷ e		3	2	Ž	2	÷	÷	=	130.52	83	9	8		30		125		į	<b>8</b> 5	38		17.17	•	82	9	2.50					7,800.965	
Allegand St. March 1988 (March 1988) and the second	18hde a Notherbold Dupplement	ORGINAL AND A CONTRACTOR OF THE PROPERTY OF TH	ugan ected system	OUTING FROM E THE ALL MAN AND AND AND AND AND AND AND AND AND A	Fig. Souther Bulke	efroit & Bay (19)	Alra Dairas & Doarborn	refed it vir barress .	where the source of the source	10   12   12   12   12   12   12   12	In bogon Mile and & Canada ,	akh ba Bay & Northwestorn	. Jacks ( Bos 1s Southern & Datroit	Library & March and John D. D. Administration of Architectures assessment assessment.	Mineral Kanga	Mingespolis, At Poul & Sault Ste, Marie		the Oxford & Northern	DAW, Turqua & Haron	Sagran Va .ey & St Londe System (Inchnied in D. L. & N.)	through a transfer ducinded to U , L & N )	March Manoy 6. Protects		St Joseph Varley			TATE OF THE PROPERTY OF THE PR		The Fort Mreet Union Depot to.	ORR AND POREST ROADS.	Bear Lake & Eastern.	wford & Manutoe River	4 March 12 de Dy D 3 de 2 de 1 de 1 de 1 de 1 de 1 de 1 de 1	Jake Siper of & labreming	Astern	医多生素 化邻苯甲甲甲基甲甲甲基甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲	QUIDE) A LOFEL DREG		

18B.—COMPARATIVE TABLE SHOWING TAXES, FOR SIX YEARS, 1891 TO 1806, INCLUSIVE.

Road No.	Railroads.	1891.	1892,	1863.	1894.	1885,	1896.
~0000a	Ann Arbor Arcadia & Betsey River Au Sable & Northwesters Chresgo & Grand Conk	83,611 47 6,144 27 80,935 68	24,318 7,594 85 7,039 08	82, 880 41 7,042 29 88, 895 99	\$970 83 6,380 73 55,422 80	\$21,884 45 19 20 1,045 72 6,549 80 55,181 01	\$22,686.88 120.45 1,187.70 5,315.16 64,254.21
22223	Chicago, Kalamazor & Saginaw Chicago & Northwestern Chicago & Northwestern Chicago & West Machagan Chicago & North Michagan	1,032 54 81,304 94 38,828 50	1,050 81 101,248 07 40,748 90	1,070 28 88,577 28 86,105 89	8,511 04 85,659 87 29,520 80	8,804,41 54,200,99 61,500,45	1,042 21 8,559 17 47,176 18 80,752 06 2,475 06
25228	Cincinnate Jacker & Mackinaw Cheinnate, Sagman & Mackinaw Cleveland Charles at Cheage & St Legister Detroit, Grand Hayen & Milwanker Detroit, Languag & Nothern System.	7,286 74 4,088 28 25,171 40	7,087 11 4,874 48 1,439 37 25,171 40 28,402 51	25,720 54 2,200 54 25,711 40 26,730 18	25,22,25,24,25,24,25,25,25,25,25,25,25,25,25,25,25,25,25,	6,380 90 2,863 82 8,00 48 25,171 40 25,401 17	25,171,40 27,171,40 27,171,40 27,171,40
នានមនុស	Detroit & Macking Dutts, South Shore & Atlantia Fint & Pere Marquette Grand Rapids & Moureal Riv. (Op'd by Wis. Cont) Grand Rapids & Indiana System.	39,006 40 53,596 R6 475 08 51,762 40	40,957,95 76,754,88 1,443,54 54,786,07	40 991 87 50,575 96 683 23 44,992 56	32,416 70 44,102 11 833 84 37,008 06	86,024 99 45,000 40 1,154 35 41,088 17	4,942.90 38,778.96 45,288.16 1,004.62
<b>83888</b>	Markegoo, trend Rapida & Indiana Traverse (18) Handock & Lare Mich (10 d by Terre Haute & I.) Lake Shore & Michigan Southert System	2 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4,442.71 1,148.96 5,213.48 668.78 46,748.60	2,921.46 1.08a.95 4,708.69 682.45 682.45	2, 272, 2 25, 250, 2 25, 250, 2 26, 251, 2 26, 251, 2 26, 251, 2 2, 2 2, 2 2, 2 2, 2 2, 2 2, 2 2, 2	2,541 49 879 73 4,789 79 824 83 66,743 60	1,474 00 891 01 4,400 05 865 78 46,743 80
報言書記載	Detroit A dicago Detroit Hillsday & Southwestern Detroit, Monroed Tolado Fort Wayne & Jackson Kalamakoo, Allegan & Grand Bapids	723 90 723 836 81 72,056 50 72,056 50 73,056 50	778 51 778 51 898 54 84 52 74 69 66 27 66 29 66 29 66 29 66 29	896 55 344 16 15,078 00 1,866 18 3,170 85	908 90 808 19 11,087 38 1,499 81 2,765 54	834 190,065 10,065 11,180 11,1	721 CS 727 SS 16,897 SS 1,697 SS 747 19
83243	Ralamszoo & White Pignon	2,443 85 1,850 80 122 25 211 10	2,527,45 1,981,18 120,70	2, 195 28 1,926 68 86 88 86 88	1,918 55 1,889 01 71 63	2,038 40 2,078 96 104 57	1,194 1,000
<b>46818</b>	Manistee & Grand Rapids — Manistee & Northeastern and Supplementary Manistree & Conna — Mason & Oceana — Michigan Alr Line Railway	2,300 81 2,606 81 8,086 91 2,086 91	2,544 38 1,715 53 164 70 2,362 48	8,751 62 1,446 88 3,96 88 8,531 68	834 78 2,869 03 1,250 04 492 89 8,915 88	3,542.26 2,542.26 2,545.26 3,509.52	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2

19.—TOTAL INCOME AND EXPENSES, MICHIGAN, 1996.

Road No.	Reilroads.	Proportion of income for Michigen	Proportion of expenses for Michigan,	Percentage of expense to seruings.	Net earnings per mile of road.
*** \$54 50 FG	Areadia & Betsey Biver	61,026,167 27 6,022 84 59,385,08 19,205 82	\$1,160,027 36 3,048 25 70,884 46 11,556 50	101.08 50	82 0718 29 773
*****	Chicago, Detr. it & C G T Junction Chicago & Grand Irunk Chicago, Kalamazoo & Sagipaw Chicago, Mi waukee & Nr. Paul	236,854 75 2,106,855 26 52,110 51 791,874 18	228,421 90 2,013,746 65 34,436 56 191,921 94	20 20 20 20 20 20 20 20 20 20 20 20 20 2	200 200 200 200 200 200 200 200 200 200
2222	Chicago & Northwestern Chicago & Nest Mictigan Chicago & Mask Mictigan Chicago & Mask Mackinaw Cholpati, Jackson & Mackinaw	2,093,684 60 1,535,451 13 320,081 03 128,858 85	2,199,114 44 1,218,091 68 298,840 88 124,247 06	8888 2483	2,176 65 552 64 171 68 96 95
22 S	Ostroit, Grand Haven & Milwankee.  Detroit, Grand Haven & Milwankee.  Detroit, Lansing & Northern System { 3 months	131,064 72 977,820 97 930,060 00 237,996 51	112,000 49 903,577 41 785,774 40 204,805 77	35.25 35 35.25 35 35 35 35 35 35 35 35 35 35 35 35 35	842 82 874 86 874 86 41
RESER	Detroit & Mackings Atlantic, Flut & Pere Marquette Gogebic & Montreal Erec Operated by Wisconin Central)	400,622 86 1,741,171 49 2,245,385 90 46,704 80	281,102 28 1,108,574 90 1,587,719 28 42,617 79	5.888 9.88 8.81	1,075 % 20 250 15 15 15 15 15 15 15 15 15 15 15 15 15
ងខ្លួន	Grand Rands A Industa System Harcock & Calamet Inners & Lake Michigan, Operated by Terre Haute & Indiana) Lake blots & Michigan Southern System.	1,775,098 17 178,088 48 43,298 48 2,045,882 24	1,522,691 47 112,089 99 47,376 27 1,676,588 37	28.25.12 25.25 26.20 27.20	2,100 20
<b>8468</b>	Lowell & Heatings Manistee & Grand Repids Manistee & Northeastern and Supplementary	11,139 51 85,049 89 201,375 08 116,713 28	10,664 49 25,154 79 124,856 88 73,844 56	71.17 81.8	221 82 951 08 720 46
<b>##32</b>	Michigan Medican September 1 and 1 a	14,846 81 146,585 11 7,509,309 64	14,346 81 141,052 92 6,151,934 64 1,820 48	100 95 75.19 205	1,406 69 2,085 00
8828	Mineapolis, St. Paul & Sault, Ste. Marie. Munising Pontiac, Oxford & Northern.	120,735 56 780,869 85 85,902 24 119,692 58	50,822 96 556,218 41 18,280 42 81,181 21	25.27 26.92 67.92 67.92 67.92	2,782 88 1,085 06 102 11 885 11

287 47 106 87 68,142 25	79 317 50 80.01 1,235 84	7 72 2,390 78	820.30	\$669 48
77.77 77.67 112 39.08		28.38 20.38 3.42 3.42		28
91,566 16,765 65 12,585 90 18,148 46 15,148 46 17,148 46		5,573 58 7,610 27 104,082 72 31,889 30	7,448 63 86,956 42 28,446 88	\$24,378,492 98
21,584 81 21,584 81 18,667 20 27,789 08	347,806 67 112,096 19 126,149 22	7,385 28 7,67 52 104,652 72 80,900 23	2,384 70 51,392 13 28,446 85	\$29,577,585 27
Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System. Sault Ste. Marie Bridge Co. South Haven & Eastern. St. Clair Tunnel.	Toledo, Saginaw & Muskegon. Wisconsin & Michigan. Wabash. Defroit Union B. R. Depot & Station Co. The Fort Street Union Depot Co.	Dear Lake & Rastorn. Crawford & Manistee River Hotla & York Lake Lake Superior & Ishpeming	Lewiston & Southeastern Manistre & Luthor Quincy & Torch Lake	Total

#### 20.-TRAFFIC BARNINGS.-FOR MICHIGAN.

-			•		Passenger
Road No.	Railroads.	Passenger fares.	Express and beggage.	Mail.	Other sources.
1 2 3 5 8	Ann Arbor	122,699 38	\$20,210 68 10,834 78	\$38,295 72 1,742 76 307 24 9,749 60	
9 10 11 12 13	Chicago & Grand Trunk	210,044 11	82,875 98 870 42 9,294 17 4,149 78 46,188 68	47,981 76 1,923 60 9,589 38 2,220 96 45,108 56	\$288 40 429 86 2 57
14 16 17 18 19	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee	500,084 17 77,379 35 34,653 21 38,123 23 365,166 46	36,335 76 15,662 57 1,869 87 2,031 08 27,762 71	62,840 08 11,431 41 4,166 38 2,929 42 30,227 33	3,573 10
20 23 24 25 26	Detroit, Lansing & Northern System Detroit & Mackinac Duluth, South Shore & Atlantic Filit & Pere Marquette Gogebic & Montreal Riv. (Op'd by Wis. Cent.).	465,792 04 75,412 61 428,225 11 593,269 07 4,240 60	23,580 00 1,749 22 35,137 29 51,639 82 597 71	51,874 54 13,339 22 43,513 67 66,926 15 816 29	18,138 43
27 30 31 33 42	Grand Rapids & Indiana System		40,829 05 833 89 566 78 109,292 63 800 00	46,366 16 669 01 1,690 36 299,920 36	13,041 63
43 44 45 46 48	Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary Manistique. Mason & Oceana	2,854 00 1,042 42 88,476 79 9,244 99 1,652 51	86 68 1,202 95	547 34 4,418 34 1,753 16 1,256 20	161 00
49 50 64 65 66	Michigan Air Line Railway.  Michigan Central System.  Midland & Northern  Mineral Range.  Minneapolis, St. Paul & Sault Ste. Marie	30,493 91 2,148,718 16	2,499 96 235,870 33 1,658 02 7,769 50	8,338 00 255,617 88 1,380 59 24,966 69	6,284 76
67 68 69 70	Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Saginaw Valley & St. Louis System	3,436 30 84,403 04 35,827 53 11,439 48	828 85 2,171 22 727 14 420 00	5.178 23	12 00
72 78 74 77	Sault Ste. Marie Bridge Co	13,623 84 21,818 00 18,359 23	1,228 01 902 00	-	3/30
78 79 80 81	Wirconsin & Michigan.  Wabash Detroit Union R. R. Depot & Station Co  The Fort St. Union Depot Co  ORE AND FOREST ROADS,	3,835 02 88,472 09	56 25 4,710 52	688 50 7,273 09	2,196 06
1 2 4 5 6 7 8	Bear Lake & Eastern Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	24 70 197 00			
_	Total	\$7,449,493 85	\$731,716 25	\$1,121,939 83	\$44,143 11

20.-TRAFFIC EARNINGS.-CONCLUDED.

department.	Frei	ght departn	nent.	Total	Operating receipts	Total receipts	<u>.</u>
Total.	Freight.	Other sources.	Total.	traffic earnings.	other than traffic earnings.	from operation.	Road No.
\$282,960 42 50 68 7,138 11 829 39 143,283 71	\$707,608 21 · 5,972 16 52,246 98 18,018 01 90,230 20	. \$857 95	\$707,608 21 5,972 16 52,246 98 18,375 96 90,230 20	\$990,568 63 6,022 84 59,385 09 19,203 35 283,518 91	\$35,598 64	\$1,026,167 27 6,022 84 59,385 09 19,205 85 233,513 91	1 2 3 5
562,789 81 20,639 06 58,093 81 14,126 44 304,291 35	1,601,859 65 31,225 04 119,865 00 46,780 47 1,778,113 15	246 41	1,601,859 65 31,471 45 119,865 00 46,780 47 1,778,118 15	2,164,649 46 52,110 51 177,958 81 60,906 91 2,082,404 50	11,290 10	2,164,649 46 52,110 51 177,938 81 60,906 91 2,093,694 60	10 11 12 13
598,780 01 104,478 33 40,689 41 38,083 73 426,729 60	927,745 19 211,983 54 87,688 21 92,680 59 495,078 35	7,728 46	935,468 63 211,985 54 87,688 21 92,680 99 495,078 35	1,534,248 66 316,458 87 128,377 62 130,764 72 921,807 95	1,292 49 3,622 16 477 73 300 00 56,013 02	1,535,541 15 320,081 03 128,855 35 131,064 72 977,820 97	14 16 17 18
540,746 58 90,501 05 506,876 07 729,973 47 5,154 60	610,676 72 307,946 96 1,190,148 84 1,386,852 91 41,359 95	4,619 60	610,676 72 307,946 96 1,144,768 44 1,386,852 93 41,508 90	1,151,423 30 398,448 01 1,701,644 51 2,116,826 40 46,663 50	14,361 66 2,174 85 7,124 78 41 80	1,165,784 96 400,622 86 1,708,769 29 2,116,826 40 46,704 30	20 23 26 25 26
626,986 09 12,812 80 14,350 93 1,006,997 34 481 10	1,124,111 24 164,818 13 28,937 55 1,024,076 19 1,840 25	4,834 90 17,308 71	1,128,946 14 164,818 13 28,937 55 1,041,384 90 1,840 25	1,755,932 28 177,630 93 43,288 48 2,048,382 24 2,321 35	19,165 94 457 50	1,775,098 17 178,088 43 43,288 48 2,048,382 24 2,321 35	27 80 81 33 42
8,649 02 1,042 42 44,098 08 10,993 15 2,908 71	7,490 49 33,832 63 156,191 32 103,565 13 11,438 10		7,490 49 33,832 63 156,191 32 105,565 13 11,488 10	11,139 51 34,875 05 200,289 40 116,563 28 14,346 81	174 84 1,085 63 150 00	11,139 51 35,049 89 201,375 03 116,713 28 14,846 81	43 44 45 46 48
41,331 87 2,340,206 37 34,120 80 155,291 43	106,109 24 4,827,500 25 886 99 78,455 02 611,765 57	551 92 2,166 90	106,109 24 4,827,500 25 886 99 74,006 94 613,932 47	147,441 11 7,467,706 62 886 99 108,127 74 769,222 90	1,000 00 40,502 02 107 82 4,169 89	148,411 11 7,508,208 64 886 99 108,235 56 773,393 79	49 50 64 65 66
34,334 46 44,249 30 41,732 90 12,914 88	81,449 53 75,287 28 68,350 63 8,604 36		81,449 53 75,287 23 68,350 63 8,604 36	35,783 99 119,536 53 110,083 53 21,519 24	118 25 156 00 619 96 65 57	35,902 24 119,692 53 110,703 49 21,584 81	67 68 69 70
16,731 99 21,818 00 26,572 54	10,572 35 94,758 25 61,549 00		10,572 35 94,758 25 61,549 00	18,667 20 27,304 34 116,576 25 88,121 54	481 74 50 6,625 37	18,667 20 27,786 08 116,576 75 94,746 91	72 78 74 77
4,579 77 102,651 76	26,169 76 234,288 02	3,363 69 10,866 89	29,533 45 245,154 91	34,113 22 347,806 67 112,099 19 126,149 22		34,113 22 347,506 67 112,099 19 126,149 22	78 79 80 81
24 70 197 00	7,370 58 7,687 52 101,422 98 80,900 25 2,384 70 51,193 13 28,446 85		7,870 58 7,687 52 101,422 98 80,900 25 2,384 70 51,195 13 28,446 85	7,395 28 7,687 52 101,422 98 80,902 25 2,384 70 51,392 13 28,446 85		7,395 28 7,687 52 101,422 95 80,900 25 2,384 70 51,392 13 28,446 85	1 2 4 5 6 7
\$9,847.293 04	\$18,972,536 79	<b>\$52,189 38</b>	\$19,024,726 17	\$28,628,934 82	1207,178 26	\$28,836,113 <b>^</b> 03	

## 21.-TRAIN MILEAGE AND TRAFFIC.-FOR MICHIGAN. .

Road No.	Railroads.	Passenger trains, miles.
1 8 5 8	Ann Arbor Au Sable & Northwestern Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk	27,800 7,050 191,595
10 12 13 14 14	Chicago, Kalamazoo & Saginaw. Chicago, Milwaukee & St. Paul. Chicago & Northwestern. Chicago & West Michigan. Cincinnati, Jackson & Mackinaw.	404.684
17 18 19 20 28	Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System Detroit & Mackinac	65,021 56,884 441,535 656,708 137,400
24 25 26 27 30	Duluth, South Shore & Atlantic. Flint & Pere Marquette. Gogebic & Montreal River (Op'd by Wis Cent.). Grand Rapids & Indiana System Hancock & Calumet.	1,020,704 19,093 774,560 26,190
31 83 42 48 44	Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System. Lima Northern Lowell & Hastings Manistee & Grand Rapids.	
45 46 48 49 50	Manistee & Northeastern and Supplementary 'Manistique Mason & Oceana Mason & Oceana Michigan Air Line Railway Michigan Central System	17,000 56.886
65 66 67 68 69	Mineral Range. Minneapolis, St. Paul & Sault Ste. Marie. Munising Pontiac, Oxford & Northern Saginaw, Tuscola & Huron	39,970 179,196 65,198 87,366
70 78 77 78 79	Saginaw Valley & St. Louis System South Haven & Eastern Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	16,416 56,434 21,407
24568	ORE AND FOREST BOADS.  Crawford & Manistee River	
	Total .	10,971,176

21.-TRAIN MILEAGE AND TRAFFIC.-CONCLUDED.

Freight trains, miles.	Total for trains earning revenue.	Through passengers, number.	Local passengers, number.	Total passengers, number.	Passengers carried 1 mile, number.	Road No.
490,045 109,360	904,807 187,160	158 8, <b>97</b> 6	303,543	903,701	10,359,119	
18,780	25.830	0,010	1,740	8,976 1,7 <b>4</b> 0	12,180	
67,059 1,375,784	25,830 291,776 2,177,515	41,232 68,606	180,288 291,778	221,500 360,384	5,160,109 29,892,428	
·· <b>· · · · · · · · · · · · · · · · </b>	84,894 217,722	2,970	38,225	41,193	684,179	1 1
115,305	217,722	4,472	i 178,801	183,273	6,569,173	1
1,133,958 706,901	1,632,832 1,453,803	1,010 4,728	278,095 716,635	279,105 721,363	7,288,805 24,391,481	1
181,805	444,010	4,728 7,578	143,648	151,226	3,989,196	î
40,466	109,048	7,169	57,053	64,222	1,569,335	1 1
267 252	122,368 910,803	8, <b>600</b> 3,025	66,978 547,933	75,578 550,958	1,696,904 16,016,931	1
60,758 267,252 490,600	910,803 1,147,308	19,609	646,273	665,892	22,161,889	2 2
200,210	401,600			73,207	8,278,209	2
654,838	1,304,593	45,540	303,087	348,627 977,308	15,250,419	2 2 2 3
1,122,794 16,899	2,231,782 85,992	28,404 18,523	948,904 15,047	977,308 88,570	28,086,440 144,139	2
642,880	1,501,513	50,089	775,722	825,811	27,911,401	2
157,161	183,359		60,619	60,619	373,286	3
21,217	58,993	1,896	18,851	20,747	512,207 25,906,574	3
800,293 544	1,782,024 14,844	17,708 49	918,414 522	936,122 571	23,906,374 8,352	3
	20,000		15,900	15,900	111,300	4
21,477	21,477		1,903	1,903	45,676	4
87,111 39,580	198,469 64,180	8,163	66,487 11,500	74,630	1,730,876	4
13,000	30,000		4,131	11,500 4,131	230,000 70,227	1
52,939	195,298 6,138,865	21	80,415	80,436	1,138,479	4
3,172,995	6,138,865	220,474	1,880,400	2,100,874	90,541,682	5
58,574 267,255	98,544	94 070	125,625 50,270 11,552	125,625 75,249	1,217,721	6 6
267,255 8, <b>914</b>	529,830 12,790	24,979	50,270 11,552	75,249 11,532	5,146,948 86,806	0
38,242 42,777	164,735	499	61.251	61,750	1,369,609	6
42,777	130,143	6,034	55,850	61,884	1,653,173	6
6,968	23,384	230	21,756	21,986	417,987	70
170	61,220	849	33,062	33,062	462,868	7:
176 22,659	147,243 44,066	1,037	31,231 13,089	31,580 14,126	726,387 183,638	7
228,210	419,422			130,828	5,708,428	79
		1				
10,600	10,600					:
54,000 13,150	54,000 13,150			· • • • • • • • • • • • • • • • • • • •		
3,900	3,400 [.					
15,636	15,636					
12,883,072	25,521,028	602,128	8,956,538	9,762,701	841,602,026	_

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Total tone of freight moved.	970,063 236 140,000 37,025 257,147	1,477,487 60,774 286,996 4,179,439 1,105,065	200 201 201 201 201 201 201 201 201 201	438,836 1,272,430 1,605,878 746,704 1,399,886	1,118,960 79,120 8,388,631 9,939 13,643	22,275 22,876 22,876 21,876 21,876	1,24,025 1,24,026 1,24,026 23,28 23,28 23,28 23,28 23,28 23,28
Tons of local tricking in moved.	845,738 36,499 280,408	421,826 18,706 230,837 4,114,836 1,084,017	235, 781 104, 995 190, 578 482, 879 497, 444	483,696 1,787,047 1,030,130 1,176 1,176 1,182,594	1,118,980 19,880 2,286,572 897 13,548	2442, 275 2443, 146 188, 865 22, 876 200, 581	8.863, 25 221, 251 200, 17 187, 188 187, 187
Tons of through freight moved.	124,310 283, 140,000 86,742	1,055,651 42,068 68,136 4,923 4,923 21,048	61,510 61,134 44,134 86,815 86,815	465,448 575,448 745,528 176,102	86, 250 9,062 9,062	16,115	2,967,984 0.00,294 0.00,294 0.00,000 0.00,000 0.00,000
Average rate per mila for all passengers.	91 25 26 17 17 17 17 17 17 17 17 17 17 17 17 17	28882 28882	<u> </u>	82138 82138	22862 23862	99 to nin-ani	######################################
Average local rate per mile.	80 02 16 04 28		-00000 88388	8728 6166	25835 25835	S 50 €1 4 8 60	22 22 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24
Average through rate per mile.	80 02 08	3285 <b>%</b>	828 83 83 83 83 83 83 83 83 83 83 83 83 83	2828	2 <b>2</b> 8	2.20	25 25 25
Average fare paid by each passenger.	85.55 88.55 88.55	2.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	1848 258 258 258	22.02.1 <b>2</b> 22.02.1 <b>2</b> 22.03.12	93223 3	872 <b>84%</b> 6:186 19:	8 58 8 28 8 28
Average distance traveled by each passenger.	8.16	258828 258828 25882 2588	82223 85231	#3248 84496	4.555¢	28822 2 2 2	30.81.88 388855
Baltroads.	Ann Arbor Arcarda & Betsey Byror An Sable & Northwestern By no 1 11y & Southmethern Chicago, Detroit & U. T. Janction	Chicago & dirand Trurk Chicago & Maranazao & Sambaw Chicago & Northwestern Chicago & Northwestern Chicago & Northwestern	Cheinart, Jackson & Mackinsw Cheinart, Sagonsw & Mackinsw t eveland Universath Cheingo & St Louis Detroit Grand Buyen & Milwanke Detroit Langed & Northern System	Detroit & Markingo Dulinh South Shire & Atlantic Fint & Pare Mericatte Ungebic & Montreal River Op'd by Win Cont.)	Hancook & Calumet Industra Haute & L.). Lake Shore & Michigan Southern System Lima Northern Lowell & Hantings.	Manistee & Grand Bapids Manistee & Northeastern and Supplementary Manistique Mason & Oceans Michigan Air Lipe Bailway	Michigan Central Bratem Mineapolis, St. Paul & Sault Ste. Marie Monising Pontlac, Oxford & Northern Seginaw, Iuscole & Huron
	Ann Arbor Arcadia & Betsey Riv An Sable & Northwee Boyne Lity & Souther Chicago, Detroit & U	Chicago & Chicago & Chicago & Chicago & Chicago &	Cincipanti Circipanti Cercipanti Detroit Uri	Detroit & Dolinh S What & P. Chapt & P. Chapt & P. Chapte & Chapte	Hancook & (aly Indiana & Lake Lake Shore & E Lima Northern Lowell & Hanti	Manistee & Manistee & Manistee & Manistee & Manistee & Manistee & Misson & Oct.	Michigan Mineral B Mineepp Monlang Pontlac,

19,466 8,275 80,109 65,448 255,187	31,147 1,459,622 289,586 11,213 51,400 556,548	31,000,568
19 208 8 274 68 586 41 348 235 187	1,459,622	28,887,582
258 11,511 24,100	290,354 11,218 165,543	8,766,008
# 288 ***********************************		80 02 28
7 38 NORK	# P 1 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	96 00 3g
64 (55 pt )	P	\$0.01.79
22.42.22 22.42.22 23.42.23 24.42.23	8	\$0 59.75
#128### # 8		28.74
Seginaw Valley & St. Louis System.  South Hayen & Eastern.  Tol-do, Sagnaw & Munkegon.  Wabesh.  OKE AND FOREST BOADS.	Crawford & Manistes River.  Hecla & Turch Lake Lake Superior & Ishpoming.  Lewiston & Southeastern  Munistes & Lorch Lake.	Total
23733	04-40-01-40	

# ANNUAL REPORT OF THE

# 28.—TRAFFIC FOR MICHIGAN.

			Mileage.	
Road No.	Railroads.	Through freight.	Local freight.	Total tons moved one mile.
1 5 8 9	Ann Arbor Boyne City & Southeastern. Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Kalamazoo & Saginaw	36,397,968 3,682 2,094,337 231,786,154 673,781	69,544,002 547,485 5,213,687 58,283,360 419,467	105,941,970 551,167 7,809,024 290,059,514 1,093,248
12 13 14 16 17	Chicago, Milwaukee & St. Paul. Chicago & Northwestern. Chicago & West Michigan. Cincinnati, Jackson & Mackinaw. Cincinnati, Saginaw & Mackinaw.	13,571,494 141,086 2,405,145 5,748,571 2,127,102	43,887,172 201,300,665 84,569,160 24,000,248 3,192,675	57,458,666 204,441,751 87,004,305 29,748,814 5,319,777
18 19 20 23 24	Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern System Detroit & Mackinac Duluth, South Shore & Atlantic	10,498,134 18,108,078 13,032,699 64,276,708	4,402,347 23,588,871 39,687,556 16,485,768 32,914,024	14,900,481 41,696,949 52,720,255 16,485,768 97,190,732
25 26 27 30 31	Flint & Pere Marquette Gogebic & Montreal Riv. (Op'd by Wis. Cent.) Grand Rapids & Indiana System Hanoock & Calumet Indiana & Lake Mich. (Op'd by Terre Haute & I.)	108,119,581 4,159,292 18,883,852 2,089,680	79,885,831 7,036 126,666,181 6,517,866 645,346	188,005,392 4,166,348 145,550,033 6,517,866 2,735,026
38 42 43 44 45	Lake Shore & Michigan Souther#System Lima Northern Lowell & Hastings Manistee & Grand Rapids Manistee & Northeastern and Supplementary	11,728,271	128,365,491 29,643 20,000 21,477 8,116,218	140,093,702 29,643 94,801 1,636,984 8,552,560
46 48 49 50 65	Manistique Mason & Oceana Michigan Air Line Railway Michigan Central System. Mineral Range	1,417,750 421,703,050	5,026,585 297,388 10,685,277 247,517,340 1,024,921	5,026,585 297,888 12,103,027 669,220,390 1,024,921
66 67 68 69 70	Minneapolis, St. Paul & Sault Ste. Marie	59,050,702 9,816 216,602 798,210 11,610	29,866,889 958,576 2,663,520 2,744,075 420,755	88,917,591 968,392 2,8°0,122 3,542,285 432,365
73 74 77 78 79	South Haven & Eastern. St. Clair Tunnel. Toledo, Saginaw & Muskegon. Wisconsin & Michigan Wabash	1,321,554 368,971	182,050 2,812,158 389,085 45,699,103	182,050 4,183,712 758,056 45,699,103
2	ORE AND FOREST ROADS.			
4 5 6 8	Hecla & Torch Lake.  Lake Superior & Ishpeming.  Lewiston & Southeastern.  Quincy & Torch Lake.	6,133,769	2,988 112,130 8,335,258	6,196,757 112,190 3,335,258
	Total	1,039,014,229	1,315,039,629	2,354,073,858

# COMMISSIONER OF RAILROADS.

23,-TRAFFIC FOR MICHIGAN.-CONCLUDED.

		tos.	Re		,	Ton haul.	
Road No.	Per ton per mile, all.	Per ton per mile local.	Per ton per mile through.	Average amount for each ton haul.	All miles.	Local miles.	Through miles.
1 5 8 9	\$0 00.67 8 1.12 .55 2.8	\$0 00.88 8 1.19 .91 2.2	\$0 00.26 3 1.38 .46	\$0 72.94 49 88.78 108.42 51	109.2 14.9 27.36 19.63 17.98	82.2 15 22.63 13.81 22.42	292.8 7 57 21.96 16.01
12 18 14 16 17	.99 .87 1 .71 1.65	1 1 2.74	.75 1.17 .81 .61 1.18	190.23 42.54 79.54 71 60.42	192.17 49 74.14 100.2 36.7	190.11 49 78.41 102 80.4	199.18 29 111.98 95.5 58
18 19 20 23 24	.62 1.19 1.16 2 1.22	.91 1.77 1.25 2.12	.05 .43 .89	18.36 98.64 100.95 71 52.37	29.5 78.9 86.80 38 42.77	23.1 54.5 76.23 38 18.41	33.4 189 151.57
25 26 27 30 31	.73 .99 .77 2.53 1.06	1.21 11.9 .79 2.53 1.26	.88 .97 .65	86.35 5.54 82 14.73 37	117.07 5.58 108.29 5.82 34.57	77.55 6 106.21 5.82 32.54	187.79 5.58 106.81 85.25
33 42 43 44 45	.73 2.2 7.8 2.06 1.8	.75 3.1 7.8 2.06 1.8	.52 1.2 2.06 2.5	48 18 55 53 60	58.8 8 7 25.46 33.4	56.5 10 7 25.46 33.4	101.9 13
46 48 49 50 65	2.1 2 .88 .72 7.17	2.1 2 .91 .85 7.17	2.1 2 .65 .64	55.9 50 49.60 84 59.22	26.61 56.58 117 8.26	26.61 58.28 86 8.26	, 108 148
66 67 68 69 70	.69 3 2.61 1.93 1.99	.75 8 2.71 1.82 1.96	.65 7 1.44 2.28 3.22	47 40 87.4 71.74 44.2	69 12.31 33.4 37.18 22.21	48 12.44 31.8 38.23 21.9	92.1 33.99 45
78 74	6	6		128	22		
74 77 78 79	1.49 3.4 .89	1.76 4.2	2.3	78.88 40 · 188.98	51.6 11.58 194.3	41 9.41	115 15.31
2 4 5 6 8	- 2.4 .7 1.8 21.8 .85	2.3	2.4 1.8 21.3 .85	24.6 27 21.8 5.1	20.48 10 6	14.8	20.5 10 6
_	<b>\$0 00.808</b>			60.2	74.48	57.58	118.58

# ANNUAL REPORT OF THE

# 24.—TONNAGE AND COMMODITIES MOVED, MICHIGAN.

Boad No.	Railroads.	Agricultural products. Tons.	Animal products. Tons.	Products of mines. Tons.
1 2 8 5	Ann Arbor	l <b></b>	15,125	316,866
5 8	Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction	80,153	22,224	44,176
9 10 12 13 14	Chicago & Grand Trunk. Chicago, Kalamszoo & Saginaw Chicago, Milwaukee & St. Paul. Chicago & Northwestern. Chicago & West Michigan	389,082 3,862 1,250 14,282 186,235	491,014 1,201 1,150 2,144 19,030	132,293 29,803 286,886 3,459,396 106,712
16 17 18 19 20	Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cieveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lausing & Northern System	49,086 15,610 175,753 207,809 129,765	9,475 2,980 3,956 28,762 24,580	126,081 39,815 149,500 79,222 78,306
23 24 25 26 27	Detroit & Mackinac. Duluth, South Shore & Atlantic. Flint & Pere Marquette Gogebic & Montreal River (Op'd by Wis. Cent.). Grand Rapids & Indiana System	6,128 122,885 495,533 4,278 235,123	5,709 15,260 31,048 338 25,231	4,502 1,419,577 175,503 781,576 128,413
80 81 83 42 43	Hancock & Calumet Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Lima Northern Lowell & Hastings	2,686 36,083 792,744 308 4,889	81 896 50,802 133 974	882,486 11,586 906,486 7,323 1,035
44 45 46 48 49	Manistee & Grand Rapids		20 1,408 60 3,554	531 6,430 27,479
50	Michigan Central System		556,152	1,267,339
64 65 66 67 68	Mineral Range Minneapolis, St. Paul & Sault Ste. Marie Munising Pontiac, Oxford & Northern	16,684 487,244 1,609 37,634	2,707 13,598 209 4,197	54,087 410,522 1,701 12,364
69 70 78 77 78 79	Saginaw, Tuscola & Huron. Saginaw Valley & St. Louis System. South Haven & Eastern. Toledo, Saginaw & Muskegon. Wisconsin & Michigan. Wabash.	18,449 1,190 4,074 34,715 10,181 64,460	2,434 241 43 3,053 133 26,430	46,177 1,891 684 9,068 150 68,067
	ORE AND FOREST ROADS.			
2 4 5 6 7 8	Crawford & Manistee River Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	583		1,429,591 299,336
_	· Total	5,030,284	1,366,341	12,752,936

# 24.—TONNAGE AND COMMODITIES MOVED.—CONCLUDED.

Forest products. Tons.	Manufac- tures. Tons.	Merchan- dise. Tons.	Other com- modities. Tons.	Total tons.	Total tonnage previous years.	Freight originating on this road. Tons.	Road No.
288,459 187	115,249 58	36,800	46,669	969,063 255	976,148	382,981 255	1 2
140,000 36,089 22,897	205 14,813	40 17,587	60 65,297	. 140,000 87,025 287,147	59,375 39,382 882,390	140,000 86,499 174,836	1 2 3 5 8
87,224 4,169 282,500 508,990	59,336 3,828 1,586	118,511 7,155	205,077 10,756	1,477,487 60,774	1,847,407 45,261	384,393 21,881	9 10 12
- 508,990 511,296	11,499 97,750	7,155 4,214 11,993 112,224	3,044 13,550 52,120	580,638 4,021,854 1,085, <b>367</b>	456,676 5,078,039 1,105,1.0	524,691 3,997,266 862,295	13 14
39,036 66,763 118,549 58,690 228,792	39,173 6,873 28,577 32,790 54,890	9,634 8,059 24,841 68,086 37,890	24,405 5,529 1,717 53,834 28,050	296,890 145,129 504,898 528,694 580,275	804.502 159,669 522,501 507,045 595,750	102,627 122,826 111,852 216,813 410,795	16 17 18 19 20
398, 131 479, 536 418, 539 6, 967 777, 572	18,808 51,252 126,998 2,023 149,787	658 65,555 162,441 819	4,900 118,425 195,819 704	433,836 2,272,490 1,605,878 746,700	435,107 2,062,285 1,528,694 919,555	433,836 1,984,021 1,040,336 719,133 817,249	28 24 25 26
25,2°0 16,427 299,342 841	149,787 4,580 7,425 425,972 1,855 284	10,628 7,665 4,789 71,478 2,612	22,682 196,252 1,994 136,827	1,118,980 79,1_0 2,683,631 9,959	1,426,669 1,089,002 74,098 2,497,496	1,118,980 19,830 553,278 2,065 8,022	30 81 83 42 43
2,920 63,312 233,987 184,623 22,221 33,375	19 6,389 45 18,056	36 1,827 4,272 200 35,621	77 2,569	18,543 64,275 259,133 188,-95 22,576 213,906	57,268 342,807 188,191 30,000 271,068	60,494 249,777 188,895 22,876 148,617	44 45 46 48 49
1,263,965	1,172,175		282,443	5,739,643	6,479,986	2,641,783	50
7,212 263,797 68,655 16,316	9,726 59,329 5,602 4,683	20,118 34,332 867 9,954	18,491 15,233 944	124,025 1,284,056 78,642 86,092	8,500 107,387 968,606 79,874	124,025 886,621 59,559 61,879	64 65 66 67 68
19,919 13,184 1,580 16,287 98,977 16,179	638 625 6,938 2,062 14,849	1,221 1,269 2,736 5,816 16,329	8,285 1,121 7,412 1,926 28,878	95,264 19,466 8,275 80,209 119,195 235,187	114,642 6k,822 7,876 82,878 66,957 242,056	90,875 11,503 5,556 66,886 69,617 235,187	69 70 73 77 78 79
31,147 24,920 202 11,213 50,000 555,548	5,017	18	561	31,147 1,460,622 299,556 11,213 51,400 555,548	24,227 1,418,860 74,806 495,401	31,147 1,559,622 291,015 11,213 51,400 555,543	2 4 5 6 7 8
7,810,490	2,554,209	914,495	1,586,879	32,035,634	32,750,113	21,560,270	

# 25.-PERMANENT WAY.

		Fenc	ing.
Koad No.	Railroads.	Completed miles. Number.	Required miles. Number.
1 2 3	Ann Arbor	557 19	20 22
5 8	Boyne City & Southeastern Chicago, Detroit & C. G. T. Junction.	122.74	
9 0 2 3	Chicago & Grand Trunk Chicago, Kalamasoo & Saginaw Chicago, Milwaukee & St. Paul Chicago & Northwestern. Chicago & West Michigan	456 87 38 681.74 894	224 360.64 37
6 7 8 9 0	Cincinnati, Jackson & Mackinaw	330.87 116 70.28 385 724.14	1.11
34.55.67	Detroit & Mankinac. Duluth, South Shore & Atlantic. Flint & Pere Marquetta. Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids and Indiana System.	180.5 449.74 724.5 53.7 387	486.6 56.5
10 11 18 12 13	Hancock & Calumet Indiana & Lake Mich. (Op'd by Terre Hante & I.) Lake Shore & Michigan Southern System Lima Northern. Lowell & Hastings.	22.80 45.05 1,143.88	39.5 5.0 10 3
14 15 16 18	Manistee & Grand Rapids	18 61.5 20	54.4 89
9 0 4 5 6	Michigan Air Line Railway  Michigan Central System.  Midland & Northern  Mineral Range  Minneapolis, St. Paul & Sault Ste, Marie	215 2,002.5 8 22 223	70 . 12 12.8 161
37 38 39 78	Munising Pontiac, Oxford & Northern Saginaw, Turc. la & Huron Sonth Haven & Eastern	194.1 183.14 48	50.9 5.9 25
75 77 78 79	St. Joseph Valley Toledo, Saginaw & Muskegon Wisconsin & Michigan Wabash	20 192 75.19	48
	ORE AND FOREST ROADS.		
1 2	Bear Lake & Bastern. Crawford & Manistee River.	17	19
5 6	Hecia & Toroh Lake Lake Superior & Ishpeming Lawiston & Southeastern	15	84
.8 :8	Hecla & Torch Lake Lake Superior & Ishpeming Lewiston & Southeastern Manistee & Luther Quincy & Torch Lake	12	
	Total	10,781.37	1,900.6

25.-PERMANENT WAY.

	Mainte	nance.			;	Renewals.			
olaced work.	sections in igan, Num-	Jength ne.	number to each	New rail Mich	s laid iń igan.	Ties.—Nu	nber put in year.	during	
Trestles replaced with earth work, Linear feet.	Track section Michigan. I ber.	Average len of sections. Miles.	Average nt of men to section.	Tons.	Miles of track.	Entire line.	In Michi-gan.	Av'ge per mile in Mich.	Road No.
874	46	6.43	4.5	551.5 264	5.01 8	183,875 6,443	176,458 6,443	607 302.2	1
	10 2 12	6 8 5	4		2	17,830	17,330	299	9 5 5
150 276 517 49	45 7 20 85 108	5 6.5 8 6.18 5.2	5 3 3 4.5	10,182	96 	204,459 5,000 2,021,806 1,556,597 339,278	153,842 5,000 46,500 221,878 325,721	435 113 810 809 581	9 10 12 13
1,473	27 8 5 87 72	6.4 6.72 7.03 5	8 4 4 4 8	348.36 4,404.17 1,327 1,258	3.77 35.04 12 11.28	112,318 83,121 731,459 117,235 196,130	37,370 83,121 7,927 117,235 196,130	329 389 398 454 518	16 17 18 19 20
3,586.5 28.3 896	32 90 117 3 97	9 5.16 7.87 9.81 4.6	4 4 4 2.87	58 3,297	.67 29.99	41,596 180,203 397,567 2,630 261,096	41,596 158,820 397,567 2,630 214,227	140 315 424.7 161 449	23 24 25 26 27
16 2,096	7 4 104 1	4.5 6 5.69 6.5 12.5	4 3 4 8	18,628	109.36	5,886 7,326 602,277 103,072 5,600	5,886 4,650 125,556 17,160 5,600	189 186 418 2,640 448	80 31 88 42 48
850	5 10 6 4 14	9 7 9.92 7	4			18,091 54,316 30,000 9,000 32,669	13,091 54,316 80,000 9,000 82,689	170 600 505 388 311	44 45 46 48 49
825	. 253	4.66 10 6	4	3,500	26	646,085 4,251	451,042 4,251	400 244	50 64 65 66
120	27 3 16 11 6	7.38 8.47 6.26 6	5 2 3 4	359.05	319	236,445 35,238 39,5%3 13,629	85,238 39,583 13,629	352 595 368	67 68 69 78
	1 12 5 12	10 8 6 6.9	6 4 4 7.5			31,321 3,065	81,321 972 25,879	295 41 340	75 77 78 78
870	1 3 3 1 4	18 10 6 7 10 15 6	4 6 6 5 6 10 8	2,400 24	20.5	6,000 54,120 10,169 7,000 746	6,000 54,120 10,109 7,00 746	600 2,640 1,010 111 124	1 2 4 4 5 6 7 8
10,669.8	1,338	7.42	4.21	60,888.74	881.81	8,358,992	3,201,481	409.4	Г

26.-HIGHWAY CROSSINGS-NUMBER.

	Reilroade.	At grade.	With gates or flaguan.	With elec- tric or sutomatic signals.	Number over.	Number nader.	18 feet above tracks	Less than 18 feet above tracks.	Total.
AAA AB	Arnadia & Betsey River An Sable & Northwestern	養数器の	**************************************	•	<b>6-</b>	est i	-		\$\$\$\$ &
8515	Chicago & Grand Trunk Chicago & Grand Trunk Chicago Malamazoo & Saginaw Chicago, Milwankee & St. Paul	8933	数数14	100		100		D 2 D 1 D 4 D 1 D 4 D 1 D 6 D 1 D 6 D 1 D 6 D 6 D 6 D 6 D 6 D 6 D 6 D 6 D 7 D 7 D 7 D 7 D 7 D 7 D 7 D 7 D 7 D 7	8 <b>23</b> 3
5555	Chicago & Northwestern Chicago & West Michigan Chicago & West Michigan Chicago & West Macking Chicago & Macking Chicago & Macking	HIER	2842	<b>P</b>	NZN	-20	enger :	-	#6# <b>3</b>
<u> </u>	Cleveland, fincipaati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee Detroit, Lansing & Northern Bystem	2253	88°		83 <u>7</u> <b>6</b>	101	#12 <b>6</b>		3633
DEG 3	Dulath, South Shore & Atlantic Fint & Pere Marguette Gogebic & Montreas Errer (operated by Wisconsin Central Grand Rapids & Indiana Bystem	38°9	38-3	80 4	9469 (4)	<b>4</b> 4	04 65	1 4 4 4 1 1 1 4 0 1 1 1 4 0 1 1 1 1 1 1	82°°5
==33	Hancock & Calumet. Indiana & Lake Michigan (operated by <b>Terre Haute &amp; L.)</b> Lake Shore & Michigan Southern System	21 % E &	18						# <b>#</b>
그로프로	Lowell & Hastings. Manistee & Grand Rapids. Manistee & Northeastern and Supplementary.	288*						* * * * * * * * * * * * * * * * * * *	######################################
BEESE	Mason & Oceana Bichigan Air Line Railway Michigan Central System Midland & Northern	11, 061 1,841 81	44 58 44	R	.08		***		251 250 48 89
퍼 <u>퍼</u> 쩟찞찞	Minneapolis, St. Paul & Sau't Mai Marle. Munising. Pontiac, Oxford & Northern Seginaw, Tuecola & Haron. Seginaw, Tuecola & Haron.	<u> </u>				64			<b>3</b> ₹588

2313	St. Joseph Valley. Toledo, Saginaw & Musicegon Wisconsin & Michigan. Wabsah.	52 n 3			64	100			55 <u>**</u>
	ORE AND PORRET ROADS.								
H100-4	Bear Lake & Eastern Crawford & Manistae River Heela & Torob Lake.	취하다	.01	-	Sign in	200	0 0 0 1 1 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0	0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>%</b> & &
10-40-00	Lake Supering & Labbaning Lewiston & Southeastern.	(h 10) 24			100	GD 1 1			E&M
	Totale present the second seco	7,870	245	8	132	110	106	16	8,108

# ANNUAL REPORT OF THE

# 27.-ACCIDENTS.

				Mis	cellan	90 <b>08.</b>
			7	1	njured	l.
Road No.	Railroads	Others killed.	Employés killed.	Passengers.	Employés.	Others.
1 8 9 12 13	Ann Arbor. Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk. Chicago, Milwaukee & St. Paul. Chicago & Northwestern		<u>3</u>	1	11	
14 16 17 18	Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cincinnati, Saginaw & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee				1	1 1
00 23 AA 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Detroit, Lansing & Northern System				<sub>7</sub> -	
7018	Grand Rapids & Indiana System				3	
15 10 15 16	Manistee & Northeastern and Supplementary  Michigan Central System  Mineral Range.  Minneapolis, St. Paul & Sault Ste. Marie				48	
18 19 17 19	Pontiac, Oxford & Northern Saginaw, Tuscola & Huron Toledo, Saginaw & Muskegon Wabash				i	
5 6	ORB AND FOREST ROADS.  Lake Superior & Ishpeming  Lewiston & Southeastern				5 2	
	Total	2	15	8	185	12

# COMMISSIONER OF RAILROADS.

# 27.—ACCIDENTS.—CONCLUDED.

ructions.	pas	es- sers n ins.	pas	n a	ì	Fo <b>ta</b>	1 1.	1	Total njurec	i.	. с	Tota asualt	l ies.	d tramps.			Resp bilit acci	onsi- y for dent.	și.	
Overhead obstructions. Employée injured.	Others killed.	Others injured.	Others killed.	Others injured.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	Trespassers and tramps.	Dranks.	Suicides.	Clearly accidental.	From neglig- ence or lack of caution.	Total accidents	Boad No.
,	1	2 1	1 3	2		2 2 3 1 8	1 2 4	  2	17 1 4 5 18	8 2 3 1 4	  2	19 3 7 6 21	4 4 7 1 10	3 6 1 8	1		19 1 11	4 4 13 7 22	23 7 14 7 33	1 8 9 12 13
1	1	2 1 	1 2	2  2			5 1 1	3 	2 2 8 3	7 2 	 	2 2 8 5	12 3 1 5 3	9 1 3 2	1		2 1 10	15 2 1 8 8	17 5 1 18 8	14 16 17 18 19
	1 2	2 -3	1 10		1	3 5 8	6 1 3 13	1  1	6 1 23 1 9	4 3 1	2  1	9 1 28 4 9	10 1 6 14	4 1 6 7	2 1	2	11 18 4 10	10 1 16 4	21 2 34 18 10	20- 23 24- 25- 26
		3  8	2 1 5	1  1		2  1	1 8	6	26 5 1 9	13 1 		28 5 1 10	19 1 1 14	14 1	1 		19 6	20 2	53 6 2 24	27 30 31 83
1	4	6 1	14	6 1 1		6	18	1 1	41 6 56	18 2 1	1 5 1	47 6 56	86 2 5	80 2	1		10 5	48 4	88 9 61	45 50- 65 66
	1	 1	1			1 1 	1 1 2		1 1 2	 1		2 1 1 2	1 1 3	1 1 2			1 1 3	1 1 1 2	2 2 2 5	68 69 77 79
									5 2			5 2					1 1	4	5 <b>2</b>	5 6
2	10	26	57	20	2	85	87	19	255	77	21	290	164	102	7	2	133	194	475	

# ANNUAL REPORT OF THE

# 26.-ACCIDENTS.

٠		C	ollisio	ns.		pling	1	Derail-
Road number.	Railroads.	Employés killed.	Passengors injured.	Employ 6s injured.	Employés killed.	Employee injured.	Employés killed.	Others
1 8 9 12 18 14 16 17 18 19	Ann Arbor Chicago, Detroit & C. G. T. Junction Chicago & Grand Truuk Chicago & Horthwestern Chicago & West Michigan Cinciunati, Jackson & Mackinaw Cinciunati, Saginaw & Mackinaw Cinciunati, Saginaw & Mackinaw Cleveland, Cinciunati, Chicago & St. Louis Detroit, Grand Haven & Milwaukee		1	i		1 2 8 1		
20 23 24 25 26	Detroit, Lansing & Northern System Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette Gogebic & Montreal River (op'd by Wisconsin Central)	<u>i</u> -		3	2	7 1		
27 30 31 83 45	Grand Rapids & Indiana System Hancock & Calumet Indiana & Lake Michigan (op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Manistee & Northeastern and Supplementary					i		
50 66 68 77 79	Michigan Central System Minnespolis, St. Paul & Sault Ste. Marie Pontiac, Oxford & Northern Toledo, Saginaw & Muskegon Wabash					i		
	Totals	8	1	9	3	60		

# COMMISSIONER OF RAILROADS.

# 26.—ACCIDENTS.—CONCLUDED.

mente	ı <b>.</b>	1	Falling	g from	train	₽.	Get	ting o	n and	off tra	ins.	Hie	hway	crossi	ngs.	ت
Passengers injured.	Employée injured.	Pastengers killed.	Employés killed.	Others killed.	Passengers injured.	Employée injured.	Passengers killed.	Employés killed.	Others killed.	Passengers injured.	Others injured.	Others killed.	Passengers injured.	Employés injured.	Others injured.	Road number.
	1 i		1 1 			2 1 2				1	1 1 1 1	2			8 1	1 8 9 12 13
	i		i			1 3				2	<u>2</u>	1 1			2	14 16 17 18 19
	<u>1</u>	1	1 1			8 1				1 1	3	2			2 1	20 21 24 24 24
5	2		1	1	1 i	2 1					1	3 1 3			1 2	27 80 31 83 44
	8	1	3 1 1		1	12 i		1		2 1		i			5	50 66 68 77 79
5	14	2	18	1	8	29		1		8	10	14			17	

# ANNUAL REPORT OF THE

# 28.-CLASSIFICATION OF EMPLOYÉS KILLED AND INJURED.

Road No.	Railroads.	Baggage- men.	Brakemen.	Conduc- tors.
1 8 9 .12 13 14 16 18 19	Ann Arbor Chicago, Detroit & C. G. T. Junction Chicago & Grand Trunk Chicago, Milwankee & St. Paul Chicago & Northwestern Chicago & West Michigan Cincinnati, Jackson & Mackinaw Cleveland, Cincinnati, Chicago & St. Louis Detroit, Grand Haven & Milwankee.	2	5 8 2 2 8	2
20 28 24 25 26 27	Detroit, Lansing & Northern System  Detroit & Mackinac Duluth, South Shore & Atlantic Flint & Pere Marquette.  Gogebic & Montreal River (Op'd by Wis. Cent.) Grand Rapids & Indiana System	1	11 1 1 15	1 2 1
30 31 33 50 65	Hancock & Calumet Indiana & Lake Michigan (Op'd by Terre Haute & I.) Lake Shore & Michigan Southern System Michigan Central System Mineral Range	1	1 7 25 2	
66 68 69 77 79	Minneapolis, St. Paul & Sault Ste. Marie		1	
5	ORE AND FOREST ROADS.  Lake Superior & Ishpeming			
	Total	14	101	12

# COMMISSIONER OF RAILROADS.

# 28.—CLASSIFICATION OF EMPLOYÉS KILLED AND INJURED.—CONCLUDED.

Engineers.	Firemen.	Laborers.	Shopmen.	Yardmen.	Unclassi- fied.	Total killed.	Total injured.	Total number.	Road No.
1 2	1 1 8	6 1 3	3	5 4	3 2	2 2 8 1 2	17 1 4 5 18	19 8 7 6 20	1 8 9 12 13
- 1 - 2	1 2	1			8	1 2 3	2 4 8 8 6	2 5 8 5 9	14 16 18 19 10
1	1	1 7 1 4 5		8 1 8 4	5	5 8 2	1 23 1 9 26	1 28 4 9 28	28 24 25 26 27
1		1		14	1 5 8	1 6	5 1 9 40 6	5 1 10 46 6	30 31 38 50 65
1	1	1	5	7	1	1	56 1 1 2	56 2 1 1 2	66 68 69 77 79
	1	4			1		5 2	5 2	5 6
9	12	66	8	42	27	85	256	291	

# RAILEOAD MILEAGE.

	1892, Milon		1993. Miles.	1804. Millos.	1295. Milles.	1896. Miles.
Road owned by companies doing basiness in Michigan Road operate I by companies doing business in Michigan Road owned in Michigan Road operation in Michigan Length of main track in Michigan Length of second and said track in Michigan Total, estimated as single track Increase over provious years		12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	12   12   12   13   14   15   15   15   15   15   15   15	20,004 28,000 81 28,000 81 21,512 86 21,512 80 21,121 85 21,135 80 21,135 80 31,135 80	22, 24, 25, 24, 25, 24, 25, 24, 25, 24, 25, 24, 25, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	22, 703 25, 103 1, 759 1, 759 1, 759 1, 759 150 150 150 150 150 150
CAP	ITAL STOCK.					
	1892	1863,	188	<del></del>	1865.	1896.
Total capital stock paid in	\$12,974,408 28 \$12,974,408 28 16,627	\$12,162,362.59 \$12,162,362.59 \$1,2.3 \$1,076	\$431,380, \$11,358,	8,388 31 1,14 1,14	\$10,885,374 97 22,851 1,161	\$426,910,564 76 \$11,148,289 97 24,509

# CAPITAL STOCK.

	2522
1896.	\$426,910,564.78 \$11,148,289.97 24,509 908
1865.	\$426,195,232 19 \$10,885,874 97 22,351 1,161
1894.	\$431,880,117 19 \$11,358,388 31 23,256 1,144
1863,	\$431,979,001.97 \$12,162,362.59 21,2.3 1,076
1892	\$372,761,847 00 \$12,974,408 28 16,627 1,038
	Fotal capital stock paid in Amount beld in Bichigan Fotal number of stockbolders

COST OF ROADS COMPARED WITH STOCK AND DEBT.

Total expital stock paid in  Total unfunded deb*  Total debt  Total stock and debt  Total cests of road and equipment  Proportion of cost for Michigan	1892. 1892. 488.203.945 82.642.022 480.745.967 814.351.228 286.629.911	00 8431,973,001 97 606,113,855 62 40,810,872,11 646,823,727 78 47 1,078,896,729 70 55 1,019,700,828 66	\$431,890,117 19 809,895,287 38 42,289,380 31 652,164,627 68 11,088,544,744 85 11,024,767,589 08 300,620,020 45	1,000, 100, 238 19 645 645 645 645 645 645 645 645 645 645	9436,910,564 76 603,026,687 21 54,834,160 61 656,960,856 52 1,083,271,421 58 1,028,961,967 94 303,186,907 91
Capital Flock paid to per mile of road Debt per mile of road Stock and debt per mile of road Cost per mile of road	22.22.23 22.22.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03.23 26.03	8823 885 8	8423 8886 8886	5223 8283	8873 8238

62,788,489 168.98 10 00.78 12,740,422,706

88,618,892 149.16 90.00.79 13,472,884,620

74,148,422 146.62 \$0.00.82 10,896,587,772

79,649,152 158 22 80 00,76 12,203,926,890

75,642,001 140,76 \$0.00.72 10,648,856,703

Number of tons of freight hauled
Average haul (miles)
Average rate per ton per mile
Total freight mileage

# COMPARATIVE TRAFFIC AND REVENUE.

	1892	19983.	186F.	1805.	1896.	
Passet get atried Passet get mileage I passet get mileage I passet get mileage I passet get mileage Freight mi	40,885,149 81,294,241 833,824,420 07 75,442,801 52,455,870 876,413,040 20 111,806,191 54 78,946,838 42 82,559,558 12 112,668,800 79 104,224,340 71 8,444,420 08	53,916,571 46,847,816 46,847,816 70,649,152 72,645,152 146,626,632 106,034,079,34 41,572,589 147,887,861 148,069,505 138,069,505 138,069,505	45, 712, 632 48, 366, 739 48, 366, 739 74, 319, 315, 96 74, 415, 422 63, 881, 227 890, 116, 889, 28 134, 482, 232, 65 97, 601, 237, 16 86, 830, 893, 70 129, 703, 435, 40 6, 406, 809, 63	41, 243, 450 44, 556, 857 44, 556, 857 67, 285, 241 67, 285, 241 67, 285, 241 67, 285, 241 68, 672, 178 14, 684, 148 14, 684, 148 183, 046, 107 183, 046, 10	44, 788, 885 45, 528, 885 45, 528, 886 45, 528, 886 82, 788, 489 83, 788, 489 101, 603, 797 23 48, 680, 220 27 145, 973, 941 40 145, 973, 941 40	
PASSENG	GER MILEAGE.					
	1692,	1863.	1894.	1886.	1906.	
Number of passongers carried Average journey (miles) Average rate per mile. Total passenger mileage	40,355,149 82,51 90 02 18 1,311,956,019	53,916,571 48,25 80 01 87 2,381,976,030	45,712,652 32,85 50 02,20 1,501,614,565	47,212,450 24.05 50.02.13 1,408,584,611	44,782,385 84.88 f0 02.13 1,562,359,965	
HDINA.	HT MILEAGE.					
	.2081	1803.	1894.	1894.	1806.	

- TR.	AIN MILE	AGE.			
	1892.	1893.	1894.	1895.	1896.
Passenger trains Freight trains Total, all trains	81,294,241 52,485,870 83,780,111	46,847,816 72,645,193 119,493,009	43,366,789 68,361,227 107,227,966	44,556,887 67,285,241 111,842,078	45,526,886 63,474,414 118,057,984
COMPARATIVE TABL	E OF EXP	enses to	EARNING	s.	
	1892.	1893.	1894.	1895.	1896.
Earnings per mile of road.  Operating expenses per mile of road.  Operating expenses, per cent of earnings.  Earnings per train mile.  Operating expenses per train mile.	\$7,444 96 6,079 22 92 \$1 34 1 24	\$7,836 59 6,004 81 90 \$1 23 1 15	\$6,753 89 5,636 63 96 \$1 26 1 20	\$6,472 89 5,354 50 91 \$1 30 1 18	\$6,413 30 6,402 28 99 \$1 28 1 26
RO	LLING ST	OCK.			
	1892.	1893.	1894.	1895.	1896.
Total number of locomotives	3,841 131,709	4,781 163,407	4,827 155,625	4,664 153,388	4,647 154,058
EMPLO	rés and s	TATIONS.			
	1892.	1893.	1894.	1895.	1896.
Total number of employés	82,981 8,877	100,963 4,642	89,586 4,629	88,325 4,695	100,598 4,759
PER	MANENT	WAYS.			
	1892.	1898.	1894.	1895.	1896.
Trestles replaced with earthwork	10,167 432 5,648,245	15,407 619 5,781,277	19,438 445 4,784,269	20,557 408 6,656,840	10,669 562 8,358,992
CROS	SINGS, NU	MBER.			
	1892.	1893.	1894.	1895.	1896.
Bailroad crossings at grade Bailroad crossings over or under Bailroad crossings, total Highway crossings at grade Highway crossings over or under Highway crossings over or under Highway crossings, total Highway crossings with gates or signals	338 42 380 7,477 234 7,711 589	350 44 394 7,449 215 7,664 510	356 44 400 7,560 213 7,773 514	356 46 402 7,669 211 7,880 530	340 55 395 7,870 242 8,112 602

# COMPARATIVE TABLE OF EARNINGS.

Years.	Gross	Miles	Rarnings
	earnings.	of road.	per mile.
1887 1888 1889 1890 1891 1892 1893 1894 1896	34,001,787 15 36,165,108 96 36,292,598 86 38,683,208 94 36,432,718 97 29,522,975 71	5,768.41 6,411.66 6,789.55 6,957.27 7,274.94 7,447.87 7,511.88 7,512.50 7,606.61 7,759.08	\$5,285 66 4,704 16 5,030 18 5,198 17 5,062 31 5,194 21 4,850 08 3,929 34 3,839 20 3,811 97

# ACCIDENTS.

	Killed.				Injured.				ies.	
Years.	Passengers.	Employés.	Others.	Total.	Parsengers.	Employés.	Others.	Total.	Total casualties.	
1887 1888 1899 1890	2 7 8 7 5	62 68 60 75 52	78 90 110 150 118	142 160 178 282 175	32 21 26 53 47	251 256 282 491 356	87 88 86 98 112	870 865 394 637 515	512 582 572 869 689	
1892 1898 1894 1895	6 46 2 4 2	78 58 37 32 35	88 96 90 100 87	167 200 129 136 124	45 127 17 18 14	463 362 169 215 255	111 77 78 72 82	619 566 264 300 851	786 766 388 436 475	

# COMPARATIVE TABLE OF EARNINGS AND EXPENSES.

State.	Gross earnings, year ending June 30, 1896.	Operating expenses.	Percentage of operating expenses compared with gross earnings.
Wisconsin	\$33,575,970 97	\$19,990,609 99	59.53
Illinois	78,158,750 00	49,524,677 05	63.11
Minnesota	39,398,128 00	20,544,124 00	52.14
Iowa	33,355,823 68	24,681,428 28	73.99
Ohio*	74,720,707 11	49,790,585 48	66.63
Michigan	29,577,585 27	24,378,492 98	82.42

<sup>\*</sup> Entire line.

ı	leenvorna.	<b>8</b> -880 70040
é	. bezntal	<b>4283</b> 55 428 <b>44</b>
To trespassers.	Killed.	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
To tre	Unlawfully on cars.	**************************************
	Unlawfully on track.	185822 1918t
At grade crossings.	.berntal	22258 22227
At g cross	Killed.	# <b>#####</b>
	Total injured.	325 38 35 35 35 35 35 35 35 35 35 35 35 35 35
	Total killed.	88287 88258 <b>8</b>
	Overhead bridges.	PHE84 H8448
<b>.</b>	From other causes.	88 21 88 72 22 22 22 22 22 22 22 22 22 22 22 22
To employée.	Falling from trains.	32333 <b>28883</b> 3
P.	By train accident.	82823 437°3
	Coupling cars.	135 55 1 55 1 55 1 55 1 55 1 55 1 55 1
	To other employée.	15 15 15 15 15 15 15 15 15 15 15 15 15 1
	To trainmen.	25.55.55.55.55.55.55.55.55.55.55.55.55.5
d E	.berntal	22827 125 125 125 125 125 125 125 125 125 125
To pas-	Killed.	01-∞-ro <b>⊕</b> 2040
	Injuries not fatal.	8888 8888 8888 8888 8888 8888 8888 8888 8888
den te.	Fatal injuries.	252 252 253 253 253 253 253 253 253 253
a aod	To trespassers.	522852 <b>528</b> 25
mmary of socidents	At grade crossings.	<b>31331 2288</b> 2
l sam	То ещріоуба.	200 200 200 200 200 200 200 200 200 200
General su	To passengers.	282882 132 88282
	-ni to redmnn latoT sanosred of seinni	512 523 523 523 66 736 736 736 736 736 736 736 736 736
	Years.	1887 1888 1889 1890 1891 1893 1895 1896

# REPORTS OF RAILROAD COMPANIES

# ANNUAL REPORT

OF THE

# ANN ARBOR RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 22, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WELLINGTON R. BURT, Toledo, Ohio. Vice President, GEO. W. QUINTARD, New York, N. Y. Secretary, DANIEL C. TATE, New York, N. Y. Auditor, F. GOSSMAN, Toledo, Ohio. Treasurer, DANIEL C. TATE, New York, N. Y. General Manager, HENRY W. ASHLEY, Toledo, Ohio. Superintendent, W. F. BRADLEY, Durand, Mich. Chief Engineer, G. A. NETTLETON, Toledo, Ohio. General Passenger Agent, W. H. BENNETT, Toledo, Ohio. General Freight Agent, W. H. BENNETT, Toledo, Ohio. Attorney, ALEX. L. SMITH, Toledo, Ohio.

# DIRECTORS.

GEO. W. QUINTARD, New York, N. Y. FRANKLIN B. LORD, New York, N. Y. A. W. WRIGHT, Alma, Mich. WM. C. McClure, Saginaw, Mich. E. W. TOLLERTON, Toledo, Ohio. Terms expire September, 1897. AMOS F. ENO, New York, N. Y. ROBERT D. MURRAY, New York, N. Y. JOHN JACOB ASTOR, New York, N. Y. BENJ. PERKINS, New York, N. Y. WELLINGTON R. BURT, SAGINAW, Mich. Terms expire September, 1898. J. EDWARD SIMMONS, New York, N. Y. H. W. ASHLEY, Toledo, Ohio. R. C. MARTIN, New York, N. Y. Terms expire September, 1899.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 21, 1895.
Number of stockholders at date of last election: 740.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$2,596.
Date of annual meeting of stockholders: Third Saturday of September, annually.
Fiscal year of company ends June 30.
General offices of the company are located at Toledo, Ohio.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation	1,183,459 87	\$1,170,750 35
Net deficit	\$12,709 52	
Interest on unfunded debt	6,664 46	
Balance for the year	\$19,373 98	
Balance (profit and loss) last year Items not included in above		\$4,448 55 8,612 71
Balance forward to next year	\$6,312 72	

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or	articles of	f associati	onao			\$7,250,000 00
Par value of shares			72,500	\$100 00 \$3,250	,000 00	
Total amount paid in as per b	ooks of th	e compan	y			\$7,250,000 00
Paid in per mile of road owned by	y company	, <b>29</b> 8.80 mil	les			24,263 72
	analysi	S OF DE	BT ACCOUNTS.			
		FUNDED :	DEBT.			
Class, character and date of	issue.	Rate of interest.	When due.	Where pays	ble.	Amount outstanding.
First mortgage gold, July 1, 1895.		45	1995	New York		\$7,000,000 00
	τ	Infunded	DEBT.			
For what incurred.	Is th	he same to	be funded or ho	w liquidated.		Amount.
For current balances						\$331,826 08
Total funded debtTotal unfunded debt		ECAPITUL				\$7,000,000 00 331,826 08
Total debt liabilities		<b></b>				7,831,826 08
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road, 2	e of road, 98.80 miles	298.80 mij	88			24,587 55 14,581,826 08 48,801 30
G	ENERAL	BALANC	E SHEETDR.			
Construction account				\$13,408, 983,	633 9U	14,336,867 38
Cash items: Cash Due from agents.					142 74 350 54	66,998 28
Other assets:  Materials and supplies Debit balances from companies W. R. Burt, receiver T. A. A. & N. M. Ry.	and indivi	duals		\$36, 48,; 85,	358 98 311 35 284 87 402 45	.,
Income account						171,652 65 6,812 72
Total					\$	14,581,826 03
G	ENERAL.	BALANC	E SHEETCr.			<del></del>
Capital stock						7,250,000 00 7,000,000 60
Unfunded debt: Notes payable Vouchers and accounts				\$100,0 209,1	00 00 39 15	
Other liabilities (list as follows): State of Michigan (accrued taxes	s)				86 88	331,826 03
Total					\$1	4.581.826 03

# COST OF ROAD AND EQUIPMENT.

PURCHASED BY PRESENT COMPANY.		
When purchased: July 2, 1895. Original cost to present company of road and equipment		14,336,867 38
Total cost to date of report	.,	14,336,867 38
Average cost per mile of road (not including sidings) 302.78 miles		47,858 \$9
ANALYSIS OF EARNINGS.—IN STATE OF MICHIG	AN.	
PASSENGER BARNINGS.		
Main line and branches: Local fares	\$223,490 09 968 93	
Total passenger fares	\$324,454 03	
Express and baggage Mails	20,210 68 88,295 72	
Total passenger department earnings		\$282,960 42
Per train mile Per mile of road	90 68.22 958 60	
FREIGHT BARNINGS.		
Main line and branches: Local traffic Through traffic	\$612,758 29 94,849 92	
Total traffic	\$707,608 21	
Total freight department earnings		707,608 21
Per train milePer mile of road	\$1 44.89 2,884 69	
ANALYSIS OF EARNINGS.—ENTIRE LINE.  PASSENGER BARNINGS.		
Main line and branches:	enn non na	
Local fares Through fares	\$229,282 86 983 50	
Total passenger fares	\$230,266 36	
Express and baggage Mails	20,570 68 88,952 84	
Total passenger department earnings		\$289,789 88
Per train mile Per mile of road	90 67.88 957 25	
FREIGHT EARNINGS.		
Main line and branches: Local traffic Through traffic	<b>968</b> 8, <b>69</b> 8 75 85,180 17	
Total traffic	\$723,878 92	
Total freight department earnings		\$728,878 92
Per train mile	\$1 42.78 2,891 17	
Total transportation earnings, entire line		\$1,125,215 46
Transportation earnings per mile of road, boat earnings deducted	\$3,848 42	
Transportation earnings per train mile, boat earnings deducted	\$1 08.55	

# ANN ARBOR RAILROAD COMPANY.

rom car mineage parance	12,138 58	
rom en mileage balance	8,010 78 25 667 25	
rom rents not otherwise provided for	1,280 35	
rom other sources	25,667 25 1,280 35 3,438 03	
Total		\$45,534
Total earnings from operation of road.		
otal earnings per mile of road, less boat earnings	498 83	
otal earnings per train mile, less boat earnings	1 18.89	
otal taxable earnings per mile of road in Michigan	458 26	
otal income from all sources		1,170,750
roportion of income for Michigan		1,026,167
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
epairs of roadway		\$278,035
enewals of rails		19,664 24,505 22,979 11,372
enetics on thes		24,505
spairs and renewals of fences, road crossings, signs and cattle guards		11.372
epairs and renewals of buildings and fixtures		94,475
snewals of rails  snewals of ties  spairs and renewals of bridges and culverts  spairs and renewals of fences, road crossings, signs and cattle guards  spairs and renewals of dooks and wharves.  spairs and renewals of dooks and wharves.  spairs and renewals of telegraph  stronger and renewals of telegraph		94,475 29,792 5,136
ationery and printing		595
ationery and printing there expenses		91
Total		\$481,648
MAINTENANCE OF EQUIPMENT.		
Meinibrande of Beoffmani.		
manintan dan sa		\$9,769
aperintendence		\$9,769 37,491
aperintendence		
aperintendence		
aperintendence		
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of show machiners and tools		63,931 6,475 38,395 8,408
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of show machiners and tools		63,931 6,475 38,395 8,408 413
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of ahop machinery and tools  ationery and printing  ther expenses		63,931 6,475 38,395 8,408 443 37
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of ahop machinery and tools  ationery and printing  Total		63,931 6,475 38,395 8,408 443 37
spairs and renewals of locomotives spairs and renewals of passenger cars spairs and renewals of freight cars spairs and renewals of work care spairs and renewals of work care spairs and renewals of marine equipment spairs and renewals of shop machinery and tools ationery and printing		63,931 6,475 38,395 8,408 443 37
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of shop machinery and tools  atlonery and printing  Total  CONDUCTING TRANSPORTATION.		63,931 6,475 38,395 8,408 443 87 \$180,626
apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of presenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.		\$180,626
pairs and renewals of locomotives pairs and renewals of locomotives pairs and renewals of passenger cars pairs and renewals of freight cars pairs and renewals of work care pairs and renewals of marine equipment pairs and renewals of shop machinery and tools attonery and printing ther expenses  Total  CONDUCTING TRANSPORTATION.		\$180,626
parintendence  pairs and renewals of locomotives  pairs and renewals of passenger cars  pairs and renewals of freight cars  pairs and renewals of work cars  pairs and renewals of marine equipment  pairs and renewals of marine equipment  pairs and renewals of marine equipment  pairs and renewals of marine equipment  pairs and renewals of marine equipment  conducting transfortation.  uperintendence  gine and roundhouse men  lei for locomotives  ater supply for locomotives  1, tallow and waste for locomotives		\$180,626
perintendence  pairs and renewals of locomotives  pairs and renewals of passenger cars  pairs and renewals of freight cars  pairs and renewals of work care  pairs and renewals of marine equipment  pairs and renewals of shop machinery and tools  ationery and printing  ther expenses  CONDUCTING TEANSPORTATION.  perintendence  igne and roundhouse men  let for locomotives  ater supply for locomotives  l, tallow and waste for locomotives  bear warplise for locomotives		\$1,831 6,475 38,395 8,408 443 37 \$180,626 \$14,902 72,180 81,592 3,015 3,015 2,432 88,585 88,585
perintendence  pairs and renewals of locomotives  pairs and renewals of passenger cars  pairs and renewals of freight cars  pairs and renewals of work care  pairs and renewals of marine equipment  pairs and renewals of shop machinery and tools  ationery and printing  ther expenses  CONDUCTING TEANSPORTATION.  perintendence  igne and roundhouse men  let for locomotives  ater supply for locomotives  l, tallow and waste for locomotives  bear warplise for locomotives		\$1,831 6,475 38,395 8,408 443 37 \$180,626 \$14,902 72,180 81,592 3,015 3,015 2,432 88,585 88,585
perintendence  pairs and renewals of locomotives  pairs and renewals of passenger cars  pairs and renewals of freight cars  pairs and renewals of work care  pairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  iperintendence  igine and roundhouse men  lei for locomotives  ater supply for locomotives  her supplies for locomotives  ain service  ain service  intohmen		\$1,831 6,475 38,395 8,408 443 37 \$180,626 \$14,902 72,180 81,592 3,015 3,015 2,432 88,585 88,585
perintendence  spairs and renewals of locomotives  spairs and renewals of passenger cars  spairs and renewals of freight cars  spairs and renewals of work cars  spairs and renewals of marine equipment  spairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  sperintendence  s		\$1,831 6,475 38,395 8,408 443 37 \$180,626 \$14,902 72,180 81,592 3,015 3,015 2,432 88,585 88,585
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence  appairs and renewals of locomotives  appairs and expenses.		\$14,902 \$14,902 \$14,902 \$1,902 \$1,902 \$1,502 \$1,
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence  appairs and renewals of locomotives  appairs and expenses.		\$180,626 \$18,902 \$180,626 \$14,902 72,180 81,592 3,015 2,432 2,432 26,824 16,725 55,656 32,824 16,725 55,246 32,255
aperintendence  spairs and renewals of locomotives  spairs and renewals of passenger cars  spairs and renewals of work cars  spairs and renewals of work cars  spairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  sperintendence  spine and roundhouse men  sel for locomotives  ater supply for locomotives  l, tallow and waste for locomotives  ther supplies for locomotives  ain service  ain supplies and expenses  witchmen, flagmen and watchmen  legraph expenses  ation supplies  ation supplies  ation service		\$180,626 \$18,902 \$180,626 \$14,902 72,180 81,592 3,015 2,432 2,432 26,824 16,725 55,656 32,824 16,725 55,246 32,255
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work cars  apairs and renewals of marine equipment  apairs and renewals of marine equipment  apairs and renewals of shop machinery and tools  attonery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence  agine and roundhouse men  tel for locomotives  attraction and waste for locomotives  ther supplies for locomotives  at an service  ain service  ain supplies and expenses  witchmen, flagmen and watchmen  legraph expenses  atton suppli		\$14,902 \$14,902 \$1,502 \$1,502 \$1,502 \$1,502 \$1,502 \$1,503 \$1,502 \$1,503 \$1,502 \$1,503 \$1,5
apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work care  apairs and renewals of work care  apairs and renewals of marine equipment  apairs and renewals of marine equipment  attonery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence  agine and roundhouse men  alle for locomotives  ater supply for locomotives  ater supplies for locomotives  atin service  ani service  ani service  ani supplies and expenses  atton supplies		\$1,801 \$1,400 \$14,902 \$14,902 \$1,180 \$1,592 \$1,592 \$1,592 \$1,558 \$5,656 28,824 16,725 55,346 3,255 9,312 1,858 7,570 2,999 2,224
apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work care  apairs and renewals of work care  apairs and renewals of marine equipment  apairs and renewals of marine equipment  attonery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence  agine and roundhouse men  alle for locomotives  ater supply for locomotives  ater supplies for locomotives  atin service  ani service  ani service  ani supplies and expenses  atton supplies		\$1,801 \$1,400 \$14,902 \$14,902 \$1,180 \$1,592 \$1,592 \$1,592 \$1,558 \$5,656 28,824 16,725 55,346 3,255 9,312 1,858 7,570 2,999 2,224
apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of freight cars  apairs and renewals of work care  apairs and renewals of work care  apairs and renewals of marine equipment  apairs and renewals of marine equipment  attonery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence  agine and roundhouse men  alle for locomotives  ater supply for locomotives  ater supplies for locomotives  atin service  ani service  ani service  ani supplies and expenses  atton supplies		\$180,626 \$14,902 \$180,626 \$14,902 72,180 81,592 3,015 2,432 432 16,725 54,558 5,656 22,824 16,725 3,255 3,255 3,255 3,255 3,255 1,858 7,570 2,999 2,224 1,103 7,145
appairs and renewals of locomotives epairs and renewals of passenger cars epairs and renewals of freight cars epairs and renewals of work care epairs and renewals of work care epairs and renewals of marine equipment epairs and renewals of abop machinery and tools attonery and printing ther expenses  Total  CONDUCTING TRANSPORTATION.  Inperintendence engine and roundhouse men eli for locomotives alter supplie for locomotives. It, tallow and waste for locomotives cain service rain supplies and expenses witchmen, flagmen and watchmen elegraph expenses ation service ation service ation service ation service ation service ation service ation service ation service ation service ation service exitence e		\$180,626 \$14,902 \$1,502 \$1,
apairs and renewals of locomotives apairs and renewals of passenger cars apairs and renewals of passenger cars apairs and renewals of freight cars apairs and renewals of work care apairs and renewals of marine equipment apairs and renewals of marine equipment attonery and printing ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence agine and roundhouse men all for locomotives alter supply for locomotives attractions and water for locomotives ther supplies for locomotives ain service ain supplies and expenses atton supplies and expenses atton supplies atton		\$14,902 \$14,902 \$14,902 72,180 81,592 3,015 54,658 54,658 55,656 28,824 16,725 55,346 3,255 9,312 1,858 7,570 2,999 2,224 2,224 1,103 7,145 8,986 8,986 8,986 8,986 8,986 8,986
aperintendence  ppairs and renewals of locomotives  spairs and renewals of passenger cars  spairs and renewals of freight cars  spairs and renewals of work cars  spairs and renewals of marine equipment  spairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  sperintendence  spine and roundhouse men  sel for locomotives  ater supply for locomotives  lt, tallow and waste for locomotives  ther supplies for locomotives  ain service  ain supplies and expenses  witchmen, flagmen and watchmen  slegraph expenses  ation supplies  ation service		\$9,769 37,491 15,673 63,931 64,75 38,395 8,408 443 37 \$180,626  \$14,902 72,180 81,592 3,015 2,432 885 54,558 5,656 28,824 16,725 55,346 28,7,570 2,989 2,224 51,690 1,103 7,145 6,171 761
aperintendence  apairs and renewals of locomotives  apairs and renewals of passenger cars  apairs and renewals of work cars  apairs and renewals of work cars  apairs and renewals of work cars  apairs and renewals of shop machinery and tools  ationery and printing  ther expenses  Total  CONDUCTING TRANSPORTATION.  aperintendence  aperintend		\$14, 902 \$180,626 \$14,902 \$12,180 \$1,592 \$1,

# GENERAL EXPENSES.

Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses. Taxes		\$20,754 04 11,347 50 2,440 30 7,686 88 8,900 66 2,430 25 2,213 87 29,056 36 \$79,831 86
RECAPITULATION OF EXPENSES.	Per cent of expenses.	
Maintenance of way and structures	40.69 15.27 87.29 6.75	\$481,648 81 180,626 25 441,352 95 79,831 86
Total operating expenses and taxes.		\$1,183,459 87
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains earning revenue, 834.213 miles.	\$1 26.68	\$3,909 29
934.213 miles.  Proportion of operating expenses and taxes for Michigan, main line		1,160,027 36
Total proportion of expenses for Michigan		\$1,160,027 36
Percentage of expenses to earnings	101.08	
Net earnings per mile of road, none. Net earnings per train mile, none.		
DESCRIPTION OF ROAD.		
Date when road was opened for use between its present termini: From Toledo, Ohio, to Frankfort, Michigan, November 17, 1889.		
MAIN LINE.		
MAIN LINE.  In Michigan, from State line to Frankfort, Mich.  In Ohio, from State line to Toledo, Ohio	Miles. 289.89 6.00	Miles.
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio	289.89	Miles.
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio Total length completed	289.89	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.	289.89	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca.  From main line to St. Louis	289.89	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river From main line to Ross mill. From main line to Diggins mill.	1.61 1.42 1.00 1.52 1.29	295.89
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river. From main line to Boss mill. From main line to Diggins mill  Total length of branches owned by company.	289.89 6.00 1.61 1.42 1.00 1.52 1.29	
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river From main line to Ross mill. From main line to Diggins mill  Total length of branches owned by company.  Total length of branches owned by company in Michigan.	289.89 6.00 1.61 1.42 1.00 1.52 1.29	295.89
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river. From main line to Pine river. From main line to Diggins mill.  Total length of branches owned by company.  Total length of road belonging to this company  Total length of road belonging to this company in Michigan.  Total length of road belonging to this company in Michigan.	289.89 6.00 1.61 1.42 1.00 1.52 1.29	295.89 6.84 302.73 296.78
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river. From main line to Ross mill. From main line to Diggins mill.  Total length of branches owned by company.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spurs, and other tracks not above em	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	295.89 6.84 302.73 296.78 53.57
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river From main line to Boss mill. From main line to Boss mill.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spurs, and other tracks not above entered the superscript of the superscr	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	295.89 6.84 302.73 296.78
In Michigan, from State line to Frankfort, Mich.  In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river From main line to Ross mill. From main line to Diggins mill.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spurs, and other tracks not above entrack.	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	295.89 6.84 302.73 296.78 53.57
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis From main line to Pine river From main line to Ross mill. From main line to Diggins mill.  Total length of branches owned by company  Total length of branches owned by company in Michigan.  Total length of road belonging to this company  Total length of road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spurs, and other tracks not above ent track.  Gauge of track, 4 feet 8½ inches.  Number of bridges and trestles in Michigan.	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	6.84 302.73 296.78 53.67 350.30 Aggregate length, feet.
In Michigan, from State line to Frankfort, Mich.  In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river. From main line to Diggins mill.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above ent track.  Gauge of track, 4 feet 8% inches.  Number of bridges and trestles in Michigan.  Wooden bridges	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	6.84 302.73 296.78 53.57 350.30
In Michigan, from State line to Frankfort, Mich.  In Ohio, from State line to Toledo, Ohio.  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis. From main line to Pine river. From main line to Diggins mill.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above ent track.  Gauge of track, 4 feet 8% inches.  Number of bridges and trestles in Michigan.  Wooden bridges	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84 Number. 3	6.84  302.73  296.78  53.57  350.80  Aggregate length, feet. 116 20 2,044
In Michigan, from State line to Frankfort, Mich. In Ohio, from State line to Toledo, Ohio  Total length completed.  BRANCHES.  From main line to Ithaca. From main line to St. Louis From main line to Pine river From main line to Ross mill. From main line to Diggins mill.  Total length of branches owned by company  Total length of branches owned by company in Michigan.  Total length of road belonging to this company  Total length of road belonging to this company in Michigan. Aggregate length in Michigan of sidings, spurs, and other tracks not above ent track.  Gauge of track, 4 feet 8½ inches.  Number of bridges and trestles in Michigan.	289.89 6.00 1.61 1.42 1.00 1.52 1.29 6.84	6.84  302.73  296.78  350.30  Aggregate length, feet. 116 20

# Crossings-railread and highway.

What railroads cross your road either over or under your grade in this State, and where?  Indica;  Michigan Central R. R. at Ann Arbor.  At what crossings are interlocking and derailing switches in operation?  M. A. L. at Hamburg Junction.  D. & G. T. and D. G. H. & M. at Durand.  M. C. at Ovorson.  F. & P. M. at Clare.  G. R. & I. at Cadillac.  C. & W. M. at Thompsonville.  What pattern or patterns have you adopted?  Union Switch and Signal, Allentown.  Number of crossings of highways at grade in this State at which there are gates or flagmen which there are electric or automatic signals.  **What pattern or patterns in use?  O'Neill's.  Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of highway bridges 18 feet above track.  Are your frogs and guard rails blocked as required by act 174, session laws of 18837  Yes.  How are they treated?  Blocked by wood or patent iron filling.  Stations.  Number of stations on whole lines.  Employés.  **Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  **Employés.**  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  **Employés.**  **Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  **Employés.**  **Prices.**  **Prices.**  **Employés.**  **Prices.**  **Prices.**  **Prices.**  **Employés.**  **Number.**  **Baggagemen.  **Employés.**  **Prices.**  **Prices.**  **Prices.**  **Prices.**  **Employés.**  **Prices.**  **Prices.**  **Prices.**  **Employés.**  **Prices.**  **Prices.**  **Employés.**  **Prices	What railroads cross your road at grade in this State, and at what locality? Lake Shore & Michigan Southern R. R. at Monroe Junction, Dundee & Pittsfield. Wabash R. R. at Milan. Detroit, Lansing & Northern R. R. at Howell Junction & St. Louis. Detroit, Grand Haven & Milwaukee R. R. at Durand. Chicago & Grand Trunk R. R. at Durand. Flint & Pere Marquette R. R. at Clare. Grand Rapids & Indiana R R. at Cadillac. Michigan Central R. R. at Owosso. Cummer Lumber Co. R. R. at Cadillac. Manistee & North Eastern R. R. at Copemish. Chicago & West Michigan R. R. at Thompsonville.	
M. A. I. at Hamburg Junction. D., L. & N. at Howell. C. & G. T. and D., G. H. & M. at Durand. M. C. at Oweso. F. & P. M. at Claim. C. & W. M. at Thompsonville.  What pattern or patterns have you adopted? Union Switch and Signal, Allentown.  Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen.  What pattern or patterns in use?  O'Neill's.  Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of highway bridges is feet above track.  Thave safety guards been erected at overhead obstructions?  Yes.  Are your frogs and guard rails blocked as required by act 174, session laws of 1888?  Yes.  Are your frogs and guard rails blocked as required by act 174, session laws of 1888?  Yes.  Stations.  Number of stations on whole lines.  Stations.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Number.  Bagagemen.  6  Employés.  Number.  Bagagemen.  6  Ergaines.  57  Conductors.  20  Engineers.  40  Firenen.  21  Shopmen.  22  Shopmen.  24  Yardmen.  25  Cive the number of fencing have you.  557  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Under:	
Union Switch and Signal, Allentown.  Number of crossings of highways at grade in this State Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings at which there are electric or automatic signals.  **Colored States**  **What pattern or patterns in use?  O'Neill's.  **Number of crossings of highways over or under railroad: over, 7; under, 2.  **Number of highway bridges 18 feet above track.  **Number of highway bridges 18 feet above track.  **Number of highway bridges 18 feet above track.  **Are your frogs and guard rails blocked as required by act 174, session laws of 18837  **Yes.  **How are they treated?**  **Blocked by wood or patent iron filling.  **Stations.**  **Number of stations on whole lines.  **Employés.**  **Number of persons regularly employed on all roads operated by company, including officials ame in Michigan.  **Classify your employés as per following list:  **Classify your employés as per following list:  **Engineers	M. A. L. at Hamburg Junction. D., L. & N. at Howell. C. & G. T. and D., G. H. & M. at Durand. M. C. at Owosso. F. & P. M. at Clare.	
Number of crossings at which there are electric or automatic signals.  What pattern or patterns in use?  O'Neill's.  Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of highway bridges 15 feet above track.  The vesafety guards been erected at overhead obstructions?  Yes.  Are your frogs and guard rails blocked as required by act 174, session laws of 1883?  Yes.  How are they treated?  Blocked by wood or patent iron filling.  Stations.  Number of stations on whole lines.  Employés.  Number of persons regularly employed on all roads operated by company, including officials 869 Same in Michigan.  Classify your employés as per following list:  Number.  Bagsagemen.  Bargagemen.  Bergagemen.  Conductors.  Engineers.  46 Firakeman.  Conductors.  Engineers.  46 Firemen.  46 Claborers.  203 Shopmen.  214 Yardmen.  Others.  EEPAIRS AND RENEWALS.  Fencing in Michigan.  Bergaines of fencing have you.  557 Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	What pattern or patterns have you adopted? Union Switch and Signal, Allentown.	
Number of crossings of highways over or under railroad: over, 7; under, 2.  Number of highway bridges 18 feet above track	Number of crossings of highways at grade in this State	894 4 4
Number of highway bridges 18 feet above track.  Have safety guards been erected at overhead obstructions? Yes.  Are your fregs and guard rails blocked as required by act 174, session laws of 1888? Yes.  How are they treated? Blocked by wood or patent iron filling.  Stations.  Number of stations on whole lines.  Employés.  Number of persons regularly employed on all roads operated by company, including officials 747  Classify your employés as per following list:  Number.  Baggagemen.  Stations 747  Classify your employes as per following list:  Number.  Baggagemen.  6  Brakemen.  Conductors  Engineers.  46  Laborers.  203  Shopmen.  214  Yardmen.  Cherry free feeting have you.  S57  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	What pattern or patterns in use? O'Neill's.	
Are your fregs and guard rails blocked as required by act 174, session laws of 18887 Yes.  How are they treated? Blocked by wood or patent iron filling.  Stations.  Number of stations on whole lines.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify our employés as per following list:  Number.  Baggagemen.  Brakemen.  Conductors  Brakemen.  Conductors  Employés.  Number.  Baggagemen.  Brakemen.  Conductors  Stations.  Fencing in Michigan.  Solopmen.  Laborers.  Solopmen.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Laborers.  Solopmen.  Lab	Number of crossings of highways over or under railroad: over, 7; under, 2. Number of highway bridges 18 feet above track.	7
Are your fregs and guard rails blocked as required by act 174, session laws of 1883? Yes.  How are they treated? Blocked by wood or patent iron filling.  Stations.  Number of stations on whole lines.  Employés.    Employés.		
Stations.  Number of stations on whole lines	Are your frogs and guard rails blocked as required by act 174, session laws of 1883?	
Number of stations on whole lines. 68 Same in Michigan 64  Employés.  Number of persons regularly employed on all roads operated by company, including officials 747  Classify your employés as per following list: Number.  Baggagemen 6 77 Conductors 77 Conductors 77 Conductors 78 Engineers 78 Firemen 79 Laborers 79 Conductor		
Employés.    Employés   Employés		
Number of persons regularly employed on all roads operated by company, including officials 869 Same in Michigan 747  Classify your employés as per following list: Number.  Baggagemen 6 Brakemen 577 Conductors 28 Engineers 46 Engineers 46 Laborers 203 Shopmen 214 Yardmen 44 Others 225  EEPAIES AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you 557 Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Number of stations on whole lines.	
Number of persons regularly employed on all roads operated by company, including officials 747  Classify your employés as per following list: Number.  Baggagemen		
Same in Michigan	${\it Employ}'$ és.	
Classify your employés as per following list:   Number.     Baggagemen		869
Baggagemen		
### Brakemen		Q
Shopmen 214 Yardmen 44 Others 225  EEPAIRS AND RENEWALS.  Fencing in Michigan.  557 Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Brakemen	57
Shopmen 214 Yardmen 44 Others 225  EEPAIRS AND RENEWALS.  Fencing in Michigan.  557 Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Engineers	46
Shopmen 214 Yardmen 44 Others 225  EEPAIRS AND RENEWALS.  Fencing in Michigan.  557 Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Firemen	46
Yardmen 44 Others 225  BEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you 557 Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Shopmen	203 214
Fencing in Michigan.  How many miles of fencing have you	Yardmen.	
Fencing in Michigan.  How many miles of fencing have you	Others	
How many miles of fencing have you.  557  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	REPAIRS AND RENEWALS.	
Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Fencing in Michigan.	
and the counties in which needed:	How many miles of fencing have you	557
Clare and Benzie	and the counties in which needed:	
	Clare and Benzie	<u>20</u>

### Road bed and track.

Number of track sections in Michigan Average lengths of sections, miles. Average number of men in each section gang. Number of new ties put in whole line during the year. Number of new ties put in track in Michigan Average number of new ties per mile of road New rails put in track:	6.48 4.5 183,875 176,458 607
Steel, tons, 551 1010-2040, miles Total miles of track laid with new rails.	1,998 5.01
Total miles of track laid with new rans	0.01

# Bridges and culverts.

Amount of trestle work replaced with earth during the year (linear feet) 874

New bridges built during the year-number, 13. .

Location.	Kind.	Material.	Month built.	feet in length.
Between Dundee and Azalia	Deck girder	Iron and wood	March	208 20
Between Milan and Urania Between Milan and Urania Between Ann Arbor and Whitmore	Deck girder Deck girder	Iron and wood Iron and wood	April November	148
Lake	Deck girder	Iron	November	20
Junction	Deck girder	Iron	January	20
Junction	Through girder Through girder	Iron	January January	12 <del>6</del> 20
Pettysviile Between Pettysville and Chilson	Through girder Through girder	Iron Iron	April	20 10
Between Pettysville and Chilson Between Corunna and Owosso Between Thompsonville and Crystal	Through girder Through girder	Iron	April November	12 12
Lake	Through girder	Iron and wood	December	98

# ROLLING STOCK

BULLING SIUCA.		
	Present esti-	
	Number. n	nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	41 2	\$123,100 00 3,200 00
Total	43	\$126,300 00
N 1 4 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00	A14 071 70
Number of passenger cars—12-wheel, including official cars	23 5	\$46,851 59 14.440 40
Number of express and baggage cars. Number of box freight cars.	1,337	346,474 22
Number of platform cars	404	51,399 48
Number of conductors' way cars	26	5,444 40
Other cars as follows:		
2 steam shovels, 1 pile driver, 3 snow plows, 5 relief, 1 derrick, 2 tool	14	6,161 88
Total.	1,809	\$600,071 97
Number of locomotives equipped with power brakes.	42	
Number of passenger-train cars equipped with power brakes	42 28 727	
Number of freight cars equipped with power brakes	727	

What patterns of power brakes have you in use, and number of locomotives and cars with each? 28 passenger cars, Westinghouse; 38 locomotives, Westinghouse.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?

955 box cars are.

What pattern or patterns have you adopted for use? Trojan.

How are your passenger cars heated? Steam from engines (Commingler system).

# ANN ARBOR RAILROAD COMPANY.

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. I	-
Miles run by passenger trains during the year	427,218 506,995	414,762 490,045
Total mileage of trains earning revenue		904,807
$Passenger\ trafficEntire\ lines.$ Numbe	rs. Miles.	Rate.
	58	
Total number of passengers carried earning revenue 304,0	02	
Number of passengers carried one mile	10,669,160 35.09	
Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers		\$0 75.70 02.05 02.15 02.16
Passenger traffic.—In State of Michigan.		
Number of through passengers carried, earning revenue	58 43	
Total number of passengers carried earning revenue 303,7	01	
Number of passengers carried one mile	10,359,119 34.10	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.		\$0 73.90 02.05 02.16 02.16
Freight traffic.—Entire lines. Ton	. Miles.	Rate.
Number of tons of through freight carried, earning revenue	89 74	
Total tons of freight carried, earning revenue	-	
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight	298.8	
Average ton haul for all freight	109.9	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average ton receipts per mile, for local freight Average receipts ton per mile, for call freight		\$0 74.62 00.24 00.89 00.678
Freight traffic.—In State of Michigan.		
Number of tons of through freight carried, earning revenue	10 i3 	
Total tons of freight carried, earning revenue		
Total mileage of through freight	36,397,968 69,544,002 105,941,970 292.8 82.2	
Average ton haul for all freight		
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight		\$0 72.94 00.26 00.88 00.668

# FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

# Company's material excluded.

0	Freight	Freight received from	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
(Frain	16,636	29,711	46,347	4.7
Flour	7,778	28,274 9,840	86,047	8.7
Flour Other mill products.	8,658	9,840	13,398	1.3
Hay.	8,287	15,154	23,441	2.4
Tobacco		1,853	1,853	.1
Cotton		4,153	4,153	.4
Cotton	7,137 1,392	10,113 6,014	17,250 7,406	1.7
Products of animals:				
Live stock		672	9,738	1.0
Dressed meats.	13		13	.o
Other packing house products		140	140	.0
Poultry, game and nan	834 175	726	1,060	.1
Other packing house products Poultry, game and fish. Wool Hides and leather.	. 1,304	162 2,533	337 8,837	.0 . <b>4</b> .
Products of mines:				
Anthracite coal	22	19,204 286,863	19,226 286,863	1.9
Bituminous coal		286,863	286,863	29.5
Coke		1,040	1,040	.1
OresStone, sand and other like articles	174 578		174	.0
Salt	1	4,892 4,092	5,470 4,093	.5 .4
Products of forest:				
Lumber	127,926	71,775	199,701	20.5
Logs Charcoal	74,587 11,620	2,419 182	77,006 11,752	7.9 1.2
Manufactures:				
Petroleum and other oils	5,670	5,607	11,277	1.1
SugarStaves and heading	181	5,607 2,266	2,447	.8
Staves and heading	26,455	7,182	33,637	8.4
Iron, pig and bloom	867	2,781	8,148	
Iron and steel rails	4 074	512	512	و. ر
Other castings and machinery	6,276 98	8,076 122	14,352 220	1.4
Bar and sheet metal		4,034	9,065	
Agriculturel implements	396	962	1,858	.;
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture	382	907	1,289	i.i
Wines, liquors and beers	3,263	2,748	6,011	:6
Household goods and furniture	3,862	1.098	4,960	
Ice.	27,121	852	27,973	2.8
Merchandise	13,766	23,034	36,800	8.7
Miscellaneous:	10.400	<b>87</b> 400		•
Other commodities not mentioned above	19,480	27,189	46,669	4.8
Total tonnage	382,931	587,132	970,063	100

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

# Company's material excluded.

a	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.	16,636	29,711 28,274	46,847	4.78
Flour Other mill products	7,778	28,274	36,047	3.72
Other mill products	8,558	9,840	13,398	1.8
Нау	8,287	15,154	23,441	2.42
Tobacco		1,853	1,853	.19
Cotton		4,153	4,158	.48
Fruit and vegetablesPotatoes	7,137 1,392	10,118 6,014	17,250 7,406	1.78 .76
Products of animals:				
Live stock		. 672	9,738	1.0
Dressed meats Other packing house products	18		13	.00
Other packing house products		140	140	.01
Poultry, game and fish	334 175	726 162	1,060	.03
Wool Hides and leather	1,804	2,533	3,837	.40
Products of mines:				-
Anthracite coal Bituminous coal	22	19,204	19,226	1.96
Bituminous coal		286,863	286,863	29.5
Coke		1,040	1,040	.11
Ores Stone, sand and other like articles	174		174	.03
Stone, sand and other like articles	578 1	4,892 4,092	5,470 4,093	.56 .42
Products of forest:				
Lumber	127,926	71,775	199,701	20.58
Lumber Logs Charcoal	74,587	2,419	77,006	7.94
Charcoal	11,620	132	11,752	1.2
Manufactures: Petroleum and other oils	5,670	5.607	11,277	1.10
Snoar	181	2.266	2.447	.2
Sugar Staves and heading	26,453	7,182 2,781	88,637	8.4
Iron, pig and bloom	367	2.781	8,148	.3
Iron, pig and bloom Iron and steel rails		512	512	.0.
Other cestings and machinery	I 8978	8,076	14,852	1.4
Bar and sheet metal.	l 98.	122	220	.03
Cament, hmck, and lime	5.001	4,034	9,085	.93
Agricultural implements	396	962	1,358	.14
Wagons, carriages, tools, etc	382	907	1,289	.13
wines, ilquors and beers	3,263	2,748	6,011	.6
Ice	8,862 27,121	1,098 832	4,960 27,978	.51 2.88
Merchandise	18,766	23,034	36,800	3.79
Miscellaneous:				
Other commodities not mentioned above	19,480	27,189	48,669	4.81
Total tonnage	382,931	587,132	970,063	100

4-

# ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Freight taken at depots only. Fixed rate per mile of road.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Ann Arbor Railroad Co., 301.41 miles.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

# KILLED.

January 28, Geo. Faust, brakeman, Marion. Fell from train; carelessness.
July 28, J. Entwisle, treepasser, Owoseo. Treepasser; careles-ness.
November 28, Jno. Fitspatrick, sectionman, Mt. Pleasant. Struck by engine; carelessness.

# INJURED.

January 1, H. O. Smith, brakeman, Mt. Pleasant. Coupling cara.

January 26. John Hont, brakeman, Pettysville. Falling from train.

February 14, W. M. Hay, brakeman, Samaria. Coupling cars.

April 12. James Wood, acctionman, Byron. Han lling timber.

April 15. Geo. Stormes, sectionman, Hamburg Junction. Cutting timber.

July 7. Jun Keating, sectionman, Hamburg Junction. Cutting steel rail.

July 9, F. Mann, brakeman. Byron. Coupling cars.

July 27, W. Brazen, sectionman, Ann Arbor. Dumping car.

Angust 19, 6, B. Harris fireman, Uruma. Engine derailed.

August 19, 6, B. Harris fireman, Uruma. Engine derailed.

August 28, D. Wright sectionman Milan. Push car ran over leg.

September 30, M. Bruse, car ropairer, Owosso. Moving car axles.

October 19, Tony Parieb, laborer, Ann Trbor. Climbing on car.

October 29, T. Blacklock, conductor, Hamburg Junction. Failing from train.

November 1, J. L. Scott, brakeman, Mouroe Junction. Failing from train.

November 12, 6, E. Isham, brakeman, Mouroe Junction. Coupling cars.

December 28, Miss M. Kearney, Ann Arbor. Coasting across track, struck by switch engine.

December 28, Miss I. Duffy, Ann Arbor. Coasting across track, struck by switch engine.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	IIMIMI			Injured.		
Causes of accident.	Pase- engers.	Employés.	Others.	Pass- ongers.	Employés.	Others.
Coupling cars. Derailments Falling from trairs. Getting on and off trains. Highway crossings Miscellaneous Treepassers on tracks Struck by engine.		1	***********	**********	5 1 2 1	
Total		2	- 1	**********	17	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	3
Number of persons injured during the year.	20
Number of casualties purely accidental.  Number resulting from lack of caution, careleseness, or misconduct	14
Number resulting from lack of caution, carelesances, or misconduct	- 6

# ANN ARBOR RAILROAD COMPANY.

# CLASSIFICATION OF EMPLOYÉS.

# KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen Brakemen Conductors	i	7	7
Laborers. Not classified above.	1	1 6 2	1 6 8
Total	2	17	19

STATE OF OHIO, } ss. County of Lucas, } ss.

W. B. Burt, president, and F. Gossman, auditor, of the Ann Arbor Bailroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

W. R. BURT, President. F. GOSSMAN, Auditor.

Subscribed and sworn to before me this 19th day of April, A. D. 1897,

J. A. MILLER, Notary Public.

# ANNUAL REPORT

OF THE

# ARCADIA & BETSEY RIVER RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed January 29, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, HENRY STARKE, Arcadia, Mich.
Vice President, HENRY MAUNTLER, Arcadia, Mich.
Secretary, CHAS. J. STARKE, Arcadia, Mich.
Auditor, ADOLPH HASSE, Arcadia, Mich.
Treasurer, CHAS. J. STARKE, Arcadia, Mich.
General Manager, HENRY STARKE, Arcadia, Mich.
Chief Engineer, JOHN A. MITCHELL, Ludington, Mich.
Trafic Manager, CHAS. J. STARKE, Arcadia, Mich.
Attorney, A. J. DOVEL, Manistee, Mich.

## DIRECTORS.

HENEY STARKE, Arcadia, Mich.
CHAS. J. STARKE, Arcadia, Mich.
HENRY MAUNTLEE, Arcadia, Mich.
MARIA STARKE, Arcadia, Mich.
JOHN WELDT, Arcadia, Mich.
Term expires December 31, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 25, 1895. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$140,000. Date of annual meeting of stockholders: First Monday in January. Fiscal year of company ends: December 31. General offices of the company are located at Arcadia, Mich.

GENERAL EXHIBIT.  Debit.	Credit.
Total earnings from operation.  Total expenses, including taxes \$3,043 28	\$6,022 84
Net income.	\$2,979 56
Balance applicable to dividends	\$2,979 56
Balance (profit and loss) last year.	\$2,979 56 385 96
Balance forward to next year	\$3,315 52
ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association	\$165,000 00
Par value of shares       \$100 00         Number of shares issued       1,400         Amount paid in on common       \$140,000 00	
Total amount paid in, as per books of the company	\$140,000 00
Paid in per mile of road owned by company, 20½ miles	\$6,829 27

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out- standing.
Capital paid in				\$140,000 00
-	UNFUNDED	DEBT.		
For what incurred.	Is the same to	be funded or ho	w liquidated?	Amount.
For miscellaneous.				\$335 96
	RECAPITUL	ATION.		
Total funded debt				\$140,000 00 335 96
Total debt liabilities				\$140,335 96
Amount of debt liabilities per mile of ro Total amount of stock and debt Stock and debt per mile of road (20½ mi	ad (20% miles	)		16 38 140,835 96
GENER	RAL BALANC	E SHERTDR		
Construction account Equipment account Other investments (specifying same):	·		\$124,512 6 13,607 0	5. 7
Car shop and round house	· · · · · · · · · · · · · · · · · · ·	5	1,200 00 8,711 08	_
Debit balances from companies and indi	ividuals		4,911 0	8 - \$143,030 80 - 284 72
Total				<b>\$143,315</b> 52
GENE	RAL BALANC	E SHEET.—CR	•	
Capital stock				. \$140,000 0
Unfunded debt: Dividends unpaid Profit and loss or income accounts				_ 335 96 _ 2,979 56
Total				\$143,315 52
COST	OF ROAD ANI	D EQUIPMENT	<u>.</u>	
		•		
Total cost for construction an	d equipment o	f road and bran	ches built by compa	nv.
Total cost for construction and Total expended for construction and eq Average cost per mile of road, not inclu Proportion of cost for Michigan	uipmentding sidings, 2	0⅓ miles, 2⅓ mi	les sidings	\$138,119 72 5,413 59
Total expended for construction and equal equal to the construction and equal to the constructio	uipmentding sidings, 2	0⅓ miles, 2⅓ mi	les sidings	\$138,119 72 5,413 59
Total expended for construction and equal Average cost per mile of road, not incluive Proportion of cost for Michigan	uipmentding sidings, 2	0⅓ miles, 2⅓ mi	les sidings	\$138,119 72 5,413 59
Total expended for construction and equal expenses cost per mile of road, not inclus the proportion of cost for Michigan	uipmentding sidings, 2	0% miles, 2% mi esent company.	les sidings	\$138,119 7: 5,413 5: 5,413 5: 5,413 5:
Total expended for construction and equal expenses cost per mile of road, not inclus Proportion of cost for Michigan	uipment	0½ miles, 2½ mi esent company. ient	les sidings	\$138,119 7: 5,413 5: 5,413 5: 5,413 5: 24,975 7: 204 6: \$138,869 7:
Total expended for construction and equal Average cost per mile of road, not inclus Proportion of cost for Michigan	uipment	0% miles, 2% mi esent company. tion	les sidings	\$138,119 72 5,413 58 5,413 59 5,413 59 \$113,689 3 24,975 72 204 66 \$138,869 77 750 00

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

# MAIN LINE.

Extensions and new sidings and ballasting.  New buildings.  New fences.  Machinery and tools.  New Cars.  Total  Total  Total charges to property account as above.  Property sold and credited.  Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.	\$10,313 05 335 30 403 70 4,106 00 204 66 \$15,962 71 15,962 71 750 00 14,612 71
PASSENGER EARNINGS.	
Main line and branches: Local fares \$50.68	
Total passenger lares	****
Total passenger department earnings	<b>\$5</b> 0 <b>6</b> 8
Per mile of road, 17½ miles operated	
FREIGHT EARNINGS.  Main line and branches:	
Local traffic	
Through traffic	
Total freight department earnings	5,972 16
Per mile of road, 17½ miles operated	
Total earnings from operation of road	6,022 84
Total earnings per mile of road, 171/2 miles operated	344 16
Total income from all sources	\$6,022 84
Proportion of income for Michigan	6,022 84
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Renewals of rails	<b>\$401.65</b>
Renewals of ties }	9 96 4401 00
Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards.	6 98
Total	\$418 54
MAINTENANCE OF BOULPMENT.	
Repairs and renewals of passenger cars } Repairs and renewals of freight cars Repairs and renewals of work cars	<b>\$56</b> 8 <b>4</b> 7
Total	\$568 47
CONDUCTING TRANSPORTATION.	
Engine and roundhouse men. Fuel for locomotives. Oil, tallow and waste for locomotives. Train service. Telegraph expenses. Loss and damage. Advertising. Stationery and printing. Other expenses. Total.	\$716 00 390 50 135 54 492 72 3 13 25 62 4 63 14 00 71 69

GENERAL EXPENSES.	
Law expenses Taxes	\$179 22 28 22
Total	\$207 44
•	
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures	\$418 57
Maintenance of equipment. Conducting transportation General expenses, including taxes	568 44 1,858 88 207 44
Total operating expenses and taxes	\$3,048 28
Proportion of operating expenses and taxes for Michigan	8,043 28
Total proportion of expenses for Michigan	\$8,043 28
Percentage of expenses to earnings 50.5%	40,040 30
Net earnings per mile of road.	170 26
DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Arcadia to C & W. M. Ry. crossing, about November 15, 1895. From Arcadia to Copemish, Mich., December 12, 1896.	
MAIN LINE.	Wilse
In Michigan, from Arcadia to Copemish	Miles. 20.50
In Michigan, from Arcadia to Copenish  Total length completed, but not all balls sted	
BRANCHES.	
From main line to timber lands	2.50 2.50
Total length of branches owned by company in Michigan	2.50
Total length of road belonging to this company, including branches.	23.00
Total length of road belonging to this company, in Michigan, including branches	23.00
Gange of track, 4 feet 81/4 inches.	
Number of bridges and trestles in Michigan.	
Wooden bridges, number of:	,
Four small bridges across creeks	<del></del> :
Total	•
Crossings.—Railroad and Highway.	
What railroads cross your road at grade in this State, and at what locality! C. & W. M. R. R. at Henry, section 15, T. 24, N. 14 W.	
At what crossings are interlocking and derailing switches in operation? C. & W. M. railroad crossing.	
What pattern or patterns have you adopted? National Switch & Signal Co. half interlocking switch and signal system, as ordered by th Railroad Crossing on Oct. 29, 1895.	e Board of
Number of crossings of highways at grade in this State? Twenty-three.	
Are your frogs and guard rails blocked as required by not 174, session laws 1883? Yes.	
How are they treated? Wooden blocks.	
Stations.	
Number of stations on whole lines, including flag-stationsSame in Michigan	13 13

# Employés.

	Employes.			
Number of persons regularly employed Same in Michigan	on all roads operated by co	mpany, inclu	ding officials	20 to 30 20 to 30
Classify your employée as per following Brakemen Conductors Engineers Firemen Laborers.	ng list:			Number
Shopmen. Others				
	REPAIRS AND RENEWALS.	ı		
	Fencing in Michigan.			
How many miles of fencing have you? Give the number of miles required to and the counties in which needed:	complete fence both sides of Manistee county	of your track	in Michigan	19 22
	Road bed and track.			
Road not yet divided into sections. Construction gang attend to maintens Number of new ties put in track in Mi Steel rails, 3 miles; about 264 tons, sec	nce of track. chigan, including extensio ond-hand rail laid by A. A.	n to Copemia Ry.	h, 6,443.	
	Bridges and culverts.			
New bridges built during the year—nu	ımber			1
Location.	Kind.	Material.	Month built	Feet in length
Section 12, T. 24, N. 14 W	Timber	Wood	September.	50
	DOLL IN STOCK			
	ROLLING STOCK.		Number. m	
Number of locomotives of more than 3  Total	0 tons weight, exclusive of	-	<u>1</u>	\$8,775 00
Number of platform cars Number of conductors' way cars Logging cars			. 15 1 84	\$6,775 00 3,227 41 204 66 3,400 00
Total number			50	\$13,607 07
What patterns of power brakes have y New York Air brake on locomotive.	ou in use, and number of l	ocomotives a	nd cars with e	ach?
Are your freight cars being equipped v of 1885, as amended by act No. 88, 1 No.	vith automatic couplers as session laws of 1887?	required by a	ct No. 147, see	ssion laws
What pattern or patterns have you ac Common.	lopted for use?			٠
1	MILEAGE TRAFFIC, ETC	2.		
•				

# Freight traffic.—In State of Michigan.

	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue	238	171/2	\$189 86
Number of tons of local freight carried, earning revenue			5,782 30

#### PREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

## Company's material excluded.

Freight originating on this road—Whole tons: Products of agriculture—Straw	_10
Products of forest—Lumber Logs, 5,129,006 feet. Cordwood, 347 cords.	187
Tan-bark, 968 cords. Manufactures—Iron and steel rails	53 1-10
Household goods and furniture	5

## ADDITIONAL QUESTIONS.

## Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

No express companies on this line.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
Twenty-one miles of telephone line belonging to Henry Starke Land and Lumber Co.

# STATE OF MICHIGAN, \ COUNTY OF MANISTEE, \ \ \ \ 88.

Chas. J. Starke, secretary and treasurer, and Henry Mauntler, vice president, of the Arcadia & Betsey River Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.] CHARLES J. STARKE.
HENRY MAUNTLER.

Subscribed and sworn to before me this 27th day of January, A. D. 1897.

[L. S.]

ADDLPH HASSE,

Notary Public for Manistee County.

#### OF THE

# AU SABLE & NORTHWESTERN RAILROAD COMPANY,

For the year ending December 31, 1996.

[Filed May 6, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, H. M. LOUD, Au Sable.

Vice President, GEO. A. LOUD, Au Sable.

Secretary, H. N. LOUD, Au Sable.

Auditor, W. F. LOUD, Au Sable.

Treasurer, W. F. LOUD, Au Sable.

General Manager, GEO. A. LOUD, Au Sable.

General Superintendent, H. PARK, McKinley.

Superintendent of Telegraph, THOMAS CLIFF, Au Sable.

General Presenger Agent, E. F. LOUD, Au Sable.

General Freight Agent, GEO. H. KEATING, Bay City.

Attorney, J. B. TUTTLE, Detroit.

#### DIRECTORS.

H. M. LOUD, Au Sable. GEO. A. LOUD, Au Sable. H. N. LOUD, Au Sable. W. F. LOUD, Au Sable. EDW. F. LOUD, Au Sable.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 22, 1891. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 8. Date of annual meeting of stockholders: July 22. Fiscal year of company ends December 31. General offices of the company are located at Au Sable, Mich.

GENERAL EXHIBIT.	Debit.	Credit. \$59,385 09
Total expenses, including taxes	\$70,834 48	<b>\$08,800 UB</b>
Net deficit	\$11,449 89	
Balance (profit and loss last year)		\$277,811 68
Balance forward to next year		\$266,362 29
		-
ANALYSIS OF CAPITAL STOCK.		
Amount authorized by charter or articles of association	\$100 00	<b>\$560,000</b> 00
Amount paid in on common		41,500 00
Amount paid in on preferred  Total amount paid in as per books of the company		41,500 00 41,500 00
Paid in per mile of road owned by company, 108 miles		384 25

# ANALYSIS OF DEBT ACCOUNTS.

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For current balances	To be paid	\$145,294 28
Total unfunded debt	mile of road, 108 miles	\$145,294 28 145,294 28 1,345 31 186,794 28
Potal amount of stock and debt Stock and debt per mile of road	, 108 miles	1,729 58
	GENERAL BALANCE SHEET.—Dr.	
Construction account	} 	•
Materials and supplies Debit balances from compani	es and individuals	. 192 00 3,857 15
	GENERAL BALANCE SHEET.—Cr.	
Capital stockUufunded debt Profit and loss or income accor	ınts	\$41,500 00 145,291 14 266,362 29
Total		. \$458,153 48
	COST OF ROAD AND EQUIPMENT.	
	·	
When purchased: July 17, 1891 Original cost to present compas Amount expended since purcha Amount expended since purcha	PURCHASED BY PERSENT COMPANY.  on, of road and equipment	\$173,000 00 47,980 87 22,815 71
Total cost to date of report	·	. \$243,796 08
Average cost per mile of road,	not including sidings, 108 miles	2,257 37
ANA	LYSIS OF EARNINGS.—ENTIRE LINES.	
Main line and branches:	Passenger Earnings.	
	<b>\$5,395</b> 3	5
Total passenger fares	\$5,395 3	
	1,742 7	8
Per train mile	nt earnings	
Main line and branches:	FREIGHT EARNINGS.	
	\$52,246 9	8
Total freight department Per train mile Per mile of road	earnings	
	ings entire line	. \$59,885 09
Total earnings from operation	of road	\$59,885 09
Total earnings per mue of road Total earnings per train mile Propertion of taxable earnings Total income from all sources	of road	8 9 - 59,385 09
Proportion of income for Mich	igan 59,385 0	9

# ANALYSIS OF EXPENSES.

Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses.	\$10,380 26 16,086 18 40,608 66 3,759 43
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes	\$10,380 26 16,086 13 40,608 63 3,759 46
Total operating expenses and taxes	\$70,834 48
Operating expenses and taxes per mile of road, 106 miles.  Operating expenses and taxes per train mile run, for trains earning revenue, 137,160 miles.  Proportion of operating expenses and taxes for Michigan: All.	655 88 58
Total proportion of expenses for Michigan	\$70,884 48
DESCRIPTION OF ROAD.	
MAIN LINE. Miles.	Miles.
In Michigan, from Au Sable to McKinley	MIII 08.
Total length completed	65
BRANCHES.	
From McKinley to Woodrow	
Total length of branches owned by company.	43
Total length of branches owned by company in Michigan Total length of road belonging to this company	43 108
Gauge of track, 3 feet.	
Number of bridges and trestles in Michigan.	
Number.	Aggregate length, feet.
Wooden bridges	800 3,800
Total 10	4,600
Crossings.—railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Detroit & Mackinac R. R. at Au Sable.	
At what crossings are interlocking and derailing switches in operation?  Detroit & Mackinac B. R.	
What pattern or patterns have you adopted? Union Switch & Signal Co.	
Number of crossings of highways at grade in this State. Thirty.	
Are your frogs and guard rails blocked as required by act 174, session laws of 18837 No.	
How are they treated? Wood.	
Stations.	
Number of stations on whole lines	22 22

# Employés.

officials	158
Classify your employée per following list.	Number.
Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen	. 11 . 11 . 15 . 15 . 85
REPAIRS AND RENEWALS.	
Road bed and track,	
Number of track sections in Michigan Average length of sections, miles Average number of men in each section gang	. 6
ROLLING STOCK.	
	Number.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	16
Total	. 21
Number of passenger cars—8-wheel, including official cars	. 2
Number of passenger cars—8-wheel, including official cars Number of express and baggage cars Number of box freight cars	2 8 3
Number of stock cars Number of platform cars	. 3 12
Other cars as follows: Russell's, 240; coal, 22; long timber cars, 50; snow plow, 1	
Total	
Number of locomotives equipped with power brakes	21
What pattern of power brakes have you in use, and number of locomotives and cars with Air, steam and vacuum.	each?
How are your passenger cars heated? Stoves.	
MILEAGE TRAFFIC, ETC.	
Train mileage.	
	In Michigan.
Train mileage.  Miles run by passenger trains during the year Miles run by freight trains during the year	
Miles run by passenger trains during the year	27,800 109,360
Miles run by passenger trains during the year Miles run by freight trains during the year Total mileage of trains earning revenue	27,800 109,360
Miles run by passenger trains during the year Miles run by freight trains during the year  Total mileage of trains earning revenue  Passenger traffic.—Entire lines.	27,800 100,360 137,160 Number.
Miles run by passenger trains during the year Miles run by freight trains during the year Total mileage of trains earning revenue	27,800 100,360 137,160 Number.
Miles run by passenger trains during the year Miles run by freight trains during the year  Total mileage of trains earning revenue  Passenger traffic.—Entire lines.	27,800 100,360 137,160 Number.
Miles run by passenger trains during the year Miles run by freight trains during the year  Total mileage of trains earning revenue  Passenger traffic.—Entire lines.  Number of through passengers carried, earning revenue	27,800 109,360 137,160 Number. 8,976
Miles run by passenger trains during the year Miles run by freight trains during the year  Total mileage of trains earning revenue  Passenger traffic.—Entire lines.  Number of through passengers carried, earning revenue  Passenger traffic.—In State of Michigan.	27,800 109,360 137,160 Number. 8,976
Miles run by passenger trains during the year Miles run by freight trains during the year  Total mileage of trains earning revenue  Passenger traffic.—Entire lines.  Number of through passengers carried, earning revenue  Passenger traffic.—In State of Michigan.  Number of through passengers carried, earning revenue  Freight traffic.—Entire lines.	27,800 109,380 137,160 Number. 8,976
Miles run by passenger trains during the year Miles run by freight trains during the year  Total mileage of trains earning revenue  Passenger traffic.—Entire lines.  Number of through passengers carried, earning revenue  Passenger traffic.—In State of Michigan.  Number of through passengers carried, earning revenue	27,800 109,380 137,160 Number. 8,976
Miles run by passenger trains during the year Miles run by freight trains during the year  Total mileage of trains earning revenue  Passenger traffic.—Entire lines.  Number of through passengers carried, earning revenue  Passenger traffic.—In State of Michigan.  Number of through passengers carried, earning revenue  Freight traffic.—Entire lines.	27,800 109,380 137,160 Number. 8,976

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 65 miles; Au Sable & Northwestern R. R.

STATE OF MICHIGAN, } ss.

Geo. A. Loud, V. P. and H. N. Loud, Sec'y of the Au Sable & Northwestern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed

GEORGE A. LOUD, V. P. HENRY N. LOUD, Sec'y.

Subscribed and sworn to before me this 4th day of May, A. D. 1897.

FORREST C. EBLING,
Notary Public in and for Iosco Co., Mich.

OF THE

# BAY CITY BELT LINE RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed April 30, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ALBERT MILLER, Bay City, Mich. Secretary, CHESTER L. COLLINS, Bay City, Mich. Treasurer, JOSEPH TURNER, Bay City, Mich.

#### DIRECTORS.

ALBERT MILLER, Bay City, Mich.
JOSEPH TURNER, Bay City, Mich.
C. L. COLLINS, Bay City, Mich.
W. H. TOUSEY, (deceased), Bay City, Mich.
GEORGE TURNER, Bay City, Mich.
G. HENEY SHEARER, Bay City, Mich.
E. T. CARRINGTON, Bay City, Mich.
Terms expire first Wednesday in June, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 30, 1889.
Number of stockholders at date of last election: 9.
Number of stockholders in Michigan at same date: 8.
Amount of full paid stock held in Michigan at same date: \$51,750.00.
Date of annual meeting of stockholders: First Monday in June.
Fiscal year of company ends, first Monday in June.
General offices of the company are located at Bay City, Mich.

#### REMARKS.

Of the total mileage owned, 6 21 miles are leased to the Flint & Pere Marquette Railroad Company; and 1.88 miles are leased to the Michigan Central Railroad Company; each lessee company operates and maintains its respective mileage.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$100,000 00
Average price received per share 100 00 Number of shares issued 1,000	
Total amount paid in as per books of the company	\$100,000 00
Paid in per mile of road owned by company, 8 09 miles	12,360 94

## ANALYSIS OF DEBT ACCOUNTS.

# UNFUNDED DEBT.

For what incurred. Is the same to be funded or how liquidated.	Amount.
For construction For real estate	\$13,059 8 5,280 9
Total unfunded debt	
RECAPITULATION.	
Total unfunded debt Total debt liabilities Amount of debt liabilities per mile of road, 8.09 miles Total amount of stock and debt. Stock and debt per mile of road.	118,340 2 14,627 9 118,340 2
COST OF ROAD AND EQUIPMENT.	
COST OF BOAD AND EQUIPMENT.  Total cost for construction and equipm nt of road and branches built by comp	any.
• • • • • • • • • • • • • • • • • • • •	\$113,059 37 13,975 20
Total cost for construction and equipm at of road and branches built by comp  Total expended for construction.  Average cost of construction per mile of road (not including sidings), 8.09 miles.	\$113,059 3
Total cost for construction and equipm at of road and branches built by comp  Total expended for construction.  Average cost of construction per mile of road (not including sidings), 8.09 miles.  Proportion of cost of construction for Michigan.  DESCRIPTION OF ROAD.  MAIN LINE.	\$113,059 37 13,975 20 113,059 37
Total cost for construction and equipm at of road and branches built by comp  Total expended for construction.  Average cost of construction per mile of road (not including sidings), 8.09 miles.  Proportion of cost of construction for Michigan  DESCRIPTION OF ROAD.  MAIN LINE.  Mill  Length completed in Michigan:  Leased to F, & P, M. R. R. Co.	\$113,059 37 13,975 20 113,059 37
Total cost for construction and equipm at of road and branches built by comp  Fotal expended for construction.  Average cost of construction per mile of road (not including sidings), 8.09 miles  Proportion of cost of construction for Michigan  DESCRIPTION OF ROAD.  MAIN LINE.  Mill  Length completed in Michigan:  Length of R. & P. M. R. R. Co.	5113,059 3' 13,975 21 113,059 3' 113,059 3'
Total cost for construction and equipm at of road and branches built by comp  Total expended for construction.  Average cost of construction per mile of road (not including sidings), 8.09 miles.  Proportion of cost of construction for Michigan  DESCRIPTION OF ROAD.  MAIN LINE.  Length completed in Michigan:  Leased to F. & P. M. R. R. Co.  1  Leased to M. C. R. R. Co.  1	5113,059 3' 13,975 21 113,059 3' 113,059 3'  Miles 21 88

# STATE OF MICHIGAN, 88.

Albert Miller, president, and Chester L Collins, secretary of the Bay City Belt Line Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed

ALPERT MILLER Provident

[L. S. OF R. R.]

ALBERT MILLER, President. CHESTER L. COLLINS, Secretary.

Subscribed and sworn to before me this 28th day of April, A. D. 1897.

HORACE TUPPER, JR.
Notary Public, Bay County, Mich.

OF THE

# BOYNE CITY & SOUTHEASTERN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 12, 1897]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WM. H. WHITE, Boyne City, Mich.
Vice President, THOS. WHITE, Boyne City, Mich.
Secretary, A. D. WHITE, Boyne City, Mich.
Auditor, L. D. FAIRCHILD, Boyne City, Mich.
Treasurer, JAMES A. WHITE, Boyne City, Mich.
General Manager, WM. H. WHITE, Boyne City, Mich.
General Superintendent, R. V. WHITE, Boyne City, Mich.
Assistant General Superintendent, THOS. WHITE, Boyne City, Mich.
Chief Engineer, A. J. TEED, Cadillac, Mich.
Cashier, L. D. FAIRCHILD, Boyne City, Mich.
General Passenger Agent, A. D. WHITE, Boyne City, Mich.
General Freight Agent, GEORGE WHITE, Boyne City, Mich.
Attorney, J. M. HARRIS, Boyne City, Mich.

# DIRECTORS.

WM. H. WHITE, Boyne City, Mich. THOMAS WHITE, Boyne City, Mich. JAMES A. WHITE, Boyne City, Mich. GEORGE WHITE, Boyne City, Mich. R. V. WHITE, Boyne City, Mich. LYDE WHITE, Grand Rapids, Mich. A. D. WHITE, Boyne City, Mich.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 3, 1893.

Number of stockholders at date of last election: 7.

Number of stockholders in Michigan at same date: 7.

Date of annual meeting of stockholders: First Monday in January each year.

Fiscal year of company ends: December 31, 1896.

General offices of the company are located at Boyne City, Mich.

GENERAL EXHIBIT. Debit.	Credit.
Total earnings from operation. \$11,558 59	\$19,205 35
Net income	\$7,646 76
Balance applicable to dividends	\$7,646 76
Balance for the year. Balance (profit and loss) last year.	\$7,646 76 10,150 84
Balance foward to next year	\$17,797 60

# ANALYSIS OF CAPITAL STOCK.

mount authorized by charter or articles of association \$100 00 cm out paid in on common \$50,000	\$256,000 (
mount paid in on common \$50,000	
	00
Total amount paid in, as per books of the company	50,000 (
aid in per mile of road owned by company, 16 miles	3,125 (
ANALYSIS OF DEBT ACCOUNTS.	
UNFUNDED DEBT.	
For what incurred.  Is the same to be funded or how liquidated?	Amount.
or construction	\$43,012 8
or construction Paid from earnings	2,496 5 1,081 9
or miscellaneous	3,250 8
Total unfunded debt	\$49,781 6
	. !
otal unfunded debt	\$49,781 6
otal debt liabilities	49,781
mount of debt liabilities per mile of road, 16 miles	8,111 8 99,781 6
otal debt liabilities mount of debt liabilities per mile of road, 16 miles otal amount of stock and debt. tock and debt per mile of road, 16 miles	99,781 t
•	
GENERAL BALANCE SHEET.—Dr.	
Construction account \$69.982	62
Construction account \$69.982	62 00
\$69,982   Quipment account	00 00
\$69,982   Quipment account	00 00 91
\$69,982   Quipment account   \$69,982   Quipment account   15,300   15,000	00 00 91
\$69,882   \$60   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$80   \$90	00 00 91 00 — \$86,414 5
\$69,982   \$60   \$62   \$63	00 00 91 00 — \$86,414 5
15,982   1	00 00 91 00 \$86,414 5 07 68 — 689 7
15,982   1	00 00 91 00 
\$69,982   \$69,982   \$15,300   \$69,082   \$15,300   \$15,000   \$15,	00 00 00 91 00 00 00 \$86,414 5 07 68 689 7 00 00 00 00 30,525 0
15,982   1	00 00 00 91 00 00 \$86,414 5 07 68 689 7 00 00 00 30,525 0
\$69,982   \$69,982   \$15,300   \$69,082   \$15,300   \$15,000   \$15,	00 00 00 91 00 00 00 \$86,414 5 07 68 689 7 00 00 00 00 30,525 0
Second	00 00 00 91 00 00 \$86,414 5 07 68 689 7 00 00 30,525 0 \$117,579 2
Sep. 982   Sep. 982	00 00 00 91 00 00 \$86,414 5 07 68 689 7 00 00 30,525 0 \$117,579 2
Section   Sect	00 00 00 00 \$86,414 5 07 68 689 7 00 00 30,525 0 \$117,579 2
Sep. 982   Sep. 982	00
Second	00

# COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment	<b>885,2</b> 82 6
Average cost per mile of road (not including sidings) 16 miles	5,880 16
Proportion of cost for Michigan	85,282 6
	,

# ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.

PASSENGER HARNINGS.		
Local fares	\$522 15	
Total passenger fares	<b>\$</b> 522 15	
Maila	307 24	
Total passenger department earnings		\$829 39
Per train mile	\$0 11 51 84	
Main line and branches:		
Local traffic	\$16,070 11 1,947 90	
Total traffic	\$18,018 01	
Other sources—freight department.	357 95	
Total freight department earnings		18,375 96
Per train mile Per mile of road	\$0 97 1,148 50	
Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile		\$19,205 35 1,200 38 74
Total earnings from operation of road		19,205 35 1,200 33
Total earnings from operation of road Total earnings per mile of road. Total earnings per train mile Total income from all sources. Proportion of income for Michigan		19,205 35 19,205 35
Analysis of expenses.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway		\$1,354 56
Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures		1 15 14 92 163 62 89 31
Total		\$1,578 56
MAINTENANCE OF EQUIPMENT.		
·		<b>44 700 04</b>
Repairs and renewals of locomotives		\$1,522 04 48 66 1,154 11
Total		\$2,724 81
CONDUCTING TRANSPORTATION.		
Engine and roundhouse men		\$2,156 66
Fuel for locomotives. Oil, tallow and waste for locomotives.		1,086 40
Other monlies for lesemetimes		92 81 700 85
Train service. Train supplies and expenses Telegraph expenses. Station supplies. Hire of equipment.		19 37
Telegraph expenses		22 95 300 55
		283 72 92 81 790 85 19 37 22 95 300 55 93 00 1,040 38
Advertising		
Advertising Rent of buildings and other property Stationery and printing Other expenses		25 00 53 62 385 74
Total		\$6,859 45

# GENERAL EXPENSES.

Salaries of general officers	\$200 00 75 00 125 77
Total	\$400 7
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures	\$1,578 56 2,724 81 6,859 41 400 71
Total operating expenses and taxes	\$11,558 59
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.	722 41 44 11,558 5
Total proportion of expenses for Michigan	\$11,558 56
Percentage of expenses to earnings	477 93
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Boyne City, Mich., to Boyne Falls, Mich., August 28, 1893. From White's Junction to Camp No. 2, November 12, 1894. From Camp No. 2 to New Camps, December 2, 1895. Extension of main line 2 miles December 20, 1896.	
MAIN LINE. Miles.	Miles
In Michigan, from Boyne City to White's Camp	
Total length completed	18.1
BRANCHES.	
From White's Junction to Boyne Falls	
Total length of branches owned by company	2.8
Total length of branches owned by company in Michigan	
Total length of road belonging to this company	1
Total length of road belonging to this company in Michigan	10
Aggregate length of tracks in Michigan belonging to this company, computed as single	_
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude:	_
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built:	_
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.	_
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 26, 1883.  Give date road completed:	_
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 28, 1883.  Give date road completed: August 28, 1883, between Boyne City and Boyne Falls.  Give date road commenced to be operated:	_
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 28, 1893.  Give date road completed: August 28, 1893, between Boyne City and Boyne Falls.  Give date road commenced to be operated: August 28, 1893, between Boyne City and Boyne Falls.  Where built from and to:	_
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 28, 1883.  Give date road completed: August 28, 1883, between Boyne City and Boyne Falls.  Give date road commenced to be operated: August 28, 1883, between Boyne City and Boyne Falls.  Where built from and to: Boyne City to White's Camp; White's Junction to Boyne Falls.  Give exact number of miles: Sixteen.  Number of bridges and trestles in Michigan.	Aggregate
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 25, 1883.  Give date road completed: August 25, 1883, between Boyne City and Boyne Falls.  Give date road commenced to be operated: August 28, 1883, between Boyne City and Boyne Falls.  Where built from and to: Boyne City to White's Camp; White's Junction to Boyne Falls.  Give exact number of miles: Sixteen.  Number of bridges and trestles in Michigan.	Aggregate length, feet
Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track 4 feet 8½ inches.  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 28, 1883.  Give date road completed: August 28, 1883, between Boyne City and Boyne Falls.  Give date road commenced to be operated: August 28, 1883, between Boyne City and Boyne Falls.  Where built from and to: Boyne City to White's Camp; White's Junction to Boyne Falls.  Give exact number of miles: Sixteen.  Number of bridges and trestles in Michigan.	Aggregate

# Crossings.-Railroad and highway.

Number of crossings of highways at grade in this State.  Are your frogs and guard rails blocked as required by act 174, session laws of 1888? Yes.	8
How are they treated? Blocked with wooden blocks.	
Stations.  Number of stations on whole lines.	6
Same in Michigan	6
77	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	24 24
Classify your employée as per following list:	Number.
Baggagemen	1
BrakemenConductors	1 2 2 2 2 10 2
Engineers	2
Firemeu Laborers	10
Shopmen	2
Yardmen Others	1 2
Road bed and track.	
Number of track sections in Michigan	2 8 4 2
Average length of sections (miles)  Average number of men in each section gang	ă
Total miles of track laid with new rails	2
ROLLING STOCK.	Present esti-
Number of locomotives of 20 to 30 tons weight, exclusive of tender	\$5,700 00 2,000 00
Total2	\$7,700 00
Number of passenger cars—8-wheel, including official cars 1 Number of box freight cars, leased 1	\$800 00
Other cars as follows: Logging 33	6,600 00
Total	\$7,400 00
Number of locomotives equipped with power brakes:	
One American.  Number of passenger-train cars equipped with power brakes:	
One Westinghouse air brake.	
What patterns of power brakes have you in use, and number of locomotives and cars with each?	
One American steam brake.  How are your passenger cars heated?  Coal stuves.	
MILEAGE, TRAFFIC, ETC.	
Train mileage.	
· I	Entire lines.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.	7,050 18,780
Total mileage of trains earning revenue	25,830
Passenger traffic.—In State of Michigan.	<b>5</b>
Number of local passengers carried, earning revenue	Rate.
Total number of passengers carried, earning revenue	
Number of passengers carried one mile 12,180	
Average distance carried	\$0.30
Average receipts per mile for local passengers.	04.28 04.28
Average receipts per mile for local passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers  Estimated cost of carrying each passenger one mile.	04.28 02.5

# Freight traffic.—In State of Michigan.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 526 86,499	Miles. 7 15	Rate.
Total tons of freight carried, earning revenue	37,025		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile  Average ton haul for through freight		3,682 547,485 551,167	
Average ton haul for local freight			
Average ton haul for all freight  Average amount received for each ton haul  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight.			\$0 49 53 3
Estimated cost of carrying one ton one mile	· · · · · · · · · · · · · · · · · · ·		1.2

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

# Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage	
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture: Grain Flour Other mill products. Hay Tobacco Cotton Fruit and vegetables. Potatoes.	43 106 83 1 22	39 48 1 83 3 9 12 1	89 91 107 166 3 10 34 24	
Products of animals: Live stock Dressed meats. Other packing house products Poultry, game and fish Hides and leather Products of mines:	9 5	17 15 34 1	34 24 34 1 6	
Bituminous coal		1	205	
LogsShingles	35,714		35,714 80	
Manufactures: Petroleum and other oils. Sugar Iron, pig and bloom Other castings and machinery Cement, brick aud lime Agricultural implements. Wagons, carriages, tools, etc Wines, liquors and beers	1	11	38 35 33 29 11 10 3	
Wines, liquors and beers. Household goods and furniture Merchandise	17	13 16 20	13 33 40	
Miscellaneous: Other commodities not mentioned above		37	80	
Total tonnage	36,499	526	87,025	

STATE OF MICHIGAN, SECONDARY OF CHARLEVOIX,

W. H. White, president, and L. D. Fairchild, auditor, of the Boyne City & Southeastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WM. H. WHITE, President. L. D. FAIRCHILD, Auditor.

Subscribed and sworn to before me this 5th day of April, A. D. 1897.
[L. S.]

JOHN F. FAIRCHILD, Notary Public.

5

OF THE

# BUCHANAN & ST. JOSEPH RIVER RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed July 27, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, FRED E. LEE, Dowagiac, Mich. Vice President, JOHN G. HOLMES, Dowagiac, Mich. Secretary, J. O. BECRAFT, Dowagiac, Mich. Treasurer, J. O. BECRAFT, Dowagiac, Mich. Chief Engineer, C. W. HOTCHKISS, Niles, Mich.

## DIRECTORS.

FRED E. LEE, Dowagiac, Mich. J. O. BECRAFT, Dowagiac, Mich. H. H. PORTER, Dowagiac, Mich. C. W. GEOVES, Buchanan, Mich. J. G. HOLMES, Buchanan, Mich. FRANK ENGLISH, Buchanan, Mich. JNO. M. HUBBELL, Buchanan, Mich.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 12, 1894. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$5,000. Date of annual meeting of stockholders: October 12. Fiscal year of company ends October 12. General offices of the company are located at Dowagiac, Mich.

## REMARKS.

The company has built 1% miles of line, but is not in operation yet.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association.		\$20,000 00
Par value of shares	\$100 00	
Number of shares issued 200		
Amount paid in on common	5,000 00	
Total amount paid in as per books of the company		5,000 00

#### DESCRIPTION OF ROAD.

#### MAIN LINE.

#### REPAIRS AND RENEWALS.

Fencing in Michigan.

How many miles of fencing have you?
11/2 miles.

STATE OF MICHIGAN, So. County of Cass,

Fred E. Lee, president, and J. O. Becraft, secretary, of the Buchanan & St. Joseph River Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

FRED E. LEE, President. J. O. BECRAFT, Secretary.

. Subscribed and sworn to before me this 26th day of July, A. D. 1897.

ABNER M. MOON, Notary Public, Cass county, Mich.

OF THE

# CENTRAL MICHIGAN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. W. BOYNTON, Grand Rapids.
Vice President, WM. E. GROVE, Grand Rapids.
Secretary, M. C. DORITY. Grand Rapids.
Auditor, DAVID L. STIVEN, Grand Rapids.
Treasurer, M. C. DORITY, Grand Rapids.
General Manager, J. W. BOYNTON, Grand Rapids.
Chief Engineer, C. M. RICH, Grand Rapids.

# DIRECTORS.

J. W. BOYNTON, Grand Rapids, Mich.
W. E. GROVE, Grand Rapids, Mich.
M. C. DORITY, Grand Rapids, Mich.
PARKER MEREILL, St. Louis, Mich.
DAVID L. STIVER, Grand Rapids, Mich.
FREMONT E. SKEELES, Grand Rapids, Mich.
SILAS W. FINCH, Grand Rapids, Mich.
H. C. PEEKHAM, Freeport, Mich.
E. W. ELLITHORP, Chicago, 111.

Terms expire June 1, 1896, or when successors are elected.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 7, 1888.
Number of stockholders at date of last election: 18.
Number of stockholders in Michigan at same date: 18.
Amount of full paid stock held in Michigan at same date: 130 shares.
Date of annual meeting of stockholders: June 1.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Michigan.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$3,000,000 00
Par value of shares         \$100           Amount paid in on common         638,000	
Total amount paid in, as per books of the company	688,000 00-

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
July 2, 1888, issued \$7,000,000.00 1st mortgag bonds	5%	1938	New York	\$50,000 00
	UNFUNDED	DEBT.		
For what incurred.	the same t	o be funded or ho	w liquidated?	Amount.
For miscellaneous	its			\$16,500 00
	RECAPITUI	ATION.		
Total funded debt Total unfunded debt			•	\$50,000 00 16,500 00
Total debt liabilities				\$66,500 00
Amount of debt liabilities per mile of road Total amount of stock and debt	l, 156 miles			428 84 704,500 00 4,591 92
GENERA	L BALANC	E SHEETDR.		
Construction account			<b>\$301,000 00</b>	
Other investments: 146 miles right of way	)		292,000 00 111,500 00	
Other investments: 146 miles right of way Terminal grounds and railroad crossings Total				
146 miles right of way Terminal grounds and railroad crossings Total				\$704,500 00
146 miles right of way  Terminal grounds and railroad crossings  Total	L BALAN(	CE SHEET.—Cr.	\$638,000 00 50,000 00 7,500 00	

# DESCRIPTION OF ROAD.

Crossings.—Railroad and highway.

What railroads cross your road at grade in this State and at what locality? Michigan Central R. B. at Battle Creek.
Michigan Central Air Line R. R. at or near Burlington.
Chicago & Grand Trunk R. B. at Battle Creek.
Cincinnati, Jackson & Mackinaw R. R. at Battle Creek.
Lake Shore & Michigan Southern R. B. at Coldwater.
Lake Shore & Michigan Southern R. R. at Montgomery.

# STATE OF MICHIGAN, COUNTY OF KENT, } 88.

J. W. Boynton, president, and M. C. Dority, secretary, of the Central Michigan Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. B.] Signed, J. W. BOYNTON, President.

M. C. DORITY, Secretary.

Subscribed and sworn to before me this 29th day of March, A. D. 1897.

CREYTON J. POST, Notary Public in and for Kent Co., Mich.

OF THE

# CHICAGO, DETROIT & CANADA GRAND TRUNK JUNCTION RAILWAY COMPANY.

For the year ending December \$1, 1896.

[Filed April 8, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CHAS. M. HAYS, Montreal, Que.

Pice President, JOHN BELL, Belleville, Ont.

Secretary. CHAS. PERCY, Montreal, Que.

Accountant, J. H. MUIR, Detroit, Mich.

General Manager, CHAS. M. HAYS, Montreal, Que..

Superintendent, A. B. ATWATER, Detroit, Mich.

Engineer, GEO. MASSON, Detroit, Mich.

General Trafic Manager, GEO. B. REEVE, Montreal, Que.

General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Que.

Assistant Passenger and Ticket Agent, E. H. HUGHES, Chicago, Ill.

General Freight Agent, J. W. LOUD, Montreal, Que.

First Assistant Freight Agent, DAVID BROWN, Chicago, Ill.

Attorney, E. W. MEDDAUGH, Detroit, Mich.

#### DIRECTORS.

CHAS. M. HAYS, Montresl, Que.
JOHN BRLL, Belleville, Ont.
E. W. MEDDAUGH, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
CHAS. PERCY, Montresl, Que.
Terms expire September, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 18, 1858.

Number of stockholders at date of last election: 8.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held is Michigan at same date: \$200.

Date of annual meeting of stockholders: Last Wednesday in September. Fiscal year of company ends December 31.

General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.	•	Debit.	Credit.
Total earnings from operation	· <b></b> · · · · · · · · · · · · · · · · · ·		\$288,513 91
Total expenses including taxes		\$288,821 90	
Net deficit		\$55,307 99	
	65,700 00 43,800 00	109,500 00	
Balance for the year deficit		\$164,807 99	
Items not included in above as follows: Bents			\$2,840 84
Contribution from Grand Trunk R'y towards interest liabilities, defic	it		\$161,967 15

# ANALYSIS OF CARISTA STOCK

ANALYSI	S OF CA	PITAL STOCK.			
Amount authorized by charter or articles of Par value of shares				\$100 00	\$1,095,000 00
Amount paid in on common				978,984 67	
Total amount paid in as per books of the	ie compar	y			978,984 67
Paid in per mile of road owned by company	, 59.87 mil	les			16,489 55
ANALYSI	S OF DE	BT ACCOUNTS.			<del></del>
	FUNDED 1	DEBT.			
Class, character and date of issue.	Rate of interest.	When due.	Where	payable.	Amount outstanding,
First mortgage bonds, June, 1884.  Bond exchangeable for stock within ten years from 26 June, 1883.	6%	June, 1884	Londor	n, Eng	\$1,095,000 00
years from 28 June, 1883	5%		No inte	rest paid.	691,141 46
Total funded debt					\$1,786,141 46
-	RECAPITUI	ATION.			
Total funded debt					\$1,786,141 46
Total debt liabilities					\$1,786,141 46
Amount of debt liabilities per mile of road, Total amount of stock and debt Stock and debt per mile of road, 59.37 miles	, 59.37 mile	38			30,084 92 2,765,126 13 46,574 47
		CE SHEET.—Dr.			
Construction account					
Total					\$2,765,126 13
		E SHEETCr.			
Capital stockFunded debt				\$978,984 67 1,786,141 46	•
Total					\$2,765,126 13
Operated by the Grand Trunk Railway Co.,	hence the	re are no current	balances	i <b>.</b>	
COST OF B	ROAD AN	D EQUIPMENT.			
Total cost for construction and equ					
Total expended for construction and equipm Average cost per mile of road (not including Proportion of cost for Michigan	nent g sidings)	, 59.37 miles			\$2,765,126 18 46,574 46 46,574 46
Equipment furnished by the lessees.					
ANALYSIS OF EARM	nings.—I	n state of mi	CHIGAI	N.	
	SENGER E	ARNINGS.			
Main line and branches: Local fares Through fares				\$66,069 51 56,629 87	:
Total passenger fares				\$122,699 38	
Express and baggage				10,834 78 9,749 60	
Total passenger department earnings.					\$148,283 71
Per train mile Per mile of road				\$0 72 2,413 40	

FREIGHT BARNINGS.		
Main line and branches: Local traffic' Through traffic	\$62,230 21 27,999 99	
Total traffic	\$90,230 20	
Total freight department earnings		\$90,230 20
Per train mile	\$0 98 1,519 76	
Total transportation earnings, entire line Transportation earnings per mile of road. Transportation earnings per train mile	3,933 20 80	\$288,518 91
Total		\$283,513 91
Total earnings from operation of road.  Total earnings per mile of road.  Total earnings per train mile.  Total taxable earnings per mile of road in Michigan.  Income other than from earning—rents.	OU	\$233,513 91 233,513 91 2,840 84
Total income from all sources.		\$236,854 75
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway		\$21,338 66
Renewals of tails.  Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.		1,968 59 7,479 81 1,819 06 1,648 51
		2,502 97
Total		\$36,747 10 ———
MAINTENANCE OF EQUIPMENT.		e1 160 90
Superintendence. Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of shop, machinery and tools. Stationery and printing Other expenses.		\$1,169 80 28,292 07 20,225 22 17,453 17 3,887 79 41 50 1,688 55
Total		\$72,758 10
CONDUCTING TRANSPORTATION.		<del></del>
Engine and roundhouse men. Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives. Train service. Train supplies and expenses. Switchmen, flagmen and watchmen Telegraph expenses Station service. Station service. Car mileage—balance Loss and damage Injuries to persons. Advertising. Outside agencies Rents for tracks, yards and terminals Stationery and printing. Other expenses		\$42,884 28 30,526 83 2,405 75 2,377 34 22,405 64 2,724 57 16,026 74 4,689 04 19,434 51 3,722 81 929 86 79 00 2,000 00 2,000 00 2,667 06 \$163,929 73
GENERAL EXPENSES.		
Salaries of general officers. Salaries of clerks and attendants Insurance. Law expenses. Stationery and printing (general offices) Taxes Total		\$500 00 1,500 00 2,322 24 1,500 00 900 00 9,264 78
Total.		\$15,386 97

Mila

DECA	DITTI	MOTTA	OF	EXPENSES.

RECAPITULATION OF EXPENSES.			
·	er cent of		
•	expenses.		
Maintenance of way and structures.	12.72	\$36,747	10
Maintenance of equipment	. 25.20	72,759	10
Conducting transportation	_ 56.76	163,929	
General expenses, including taxes.	. 5.32	15,886	97
Total operating expenses and taxes	. 100.00	\$288,821	90
Operating expenses and taxes per mile of road	,864 78		_
291.766 miles	98.991	****	••
Proportion of operating expenses and taxes for Michigan  Total proportion of expenses for Michigan		\$288,821 288,821	
Per centage of expenses to earnings	110.84	9 099	20
Net earnings per mile of road Net earnings per train mile		3,933	2U 80
			=

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit Junction to Fort Gratiot, November, 1859.

#### MAIN LINE.

In Michigan, from Detroit Junction to Fort Gratiot	59.87
Total length completed	59.87
Total length of road belonging to this company in Michigan	59.87 26.58
track	85.90

# Number of bridges and trestles in Michigan.

	Number.	Aggregate length, feet.
Iron	1	792
Total		792

# Draw bridges in Michigan.

How many on your line?

One.

Where located, when built and length of draw span? Near Port Huron, built in 1859. Length of swing 123 feet.

Character of structure? Swing draw.

Material of which constructed. Iron and stone.

Gauge of track, 4 feet 8% inches.

Height above water, and depth of water under bridge. Height, 14 feet; depth, 12 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Straight.

Do you require all trains to some to a full stop before crossing a draw, and how are they signaled? Yes; by semaphore.

## Crossings-Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Detroit & Bay City R. R. at Detroit.
Detroit, Grand Haven & Milwaukee R. R. at Detroit.
Belt Line R. R. at Detroit.
Port Huron and South Western R. R. at Port Huron.
Chicago & Grand Trunk R. R. near Port Huron.
Flint & Pere Marquette R. R. at Port Huron.
Port Huron and North Western R. R. at Port Huron.

At what crossings are interlocking and derailing switches in operation?  Woodward Avenue and Belt Line B. R. at Detroit, and at Chicago & Grand Trunk R'y Ju Port Huron.	anction near
What pattern or patterns have you adopted? Union Switch & Signal Co.	
Number of crossings of highways at grade in this State	90
flagmen  Are your frogs and guard rails blocked as required by act 174, session laws of 1883. Yes.	28
How are they treated? Filled with wood planking.	
Stations.  Number of stations on whole line	12 12
Employés.	
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.	827 327
Classify your employés as per following list:	Number.
Baggagemen	9
Brakemen	20 14 25 25 56 38
EngineersFiremen	25
Laborers	56
YardmenOthers	38 140
V MALO	
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you	122.74
Road bed and track.	
Number of track sections in Michigan	12
Average length of sections, miles.  Average number of men in each section gang.  Number of new ties put in whole line during the year.	5 4
Number of new ties put in whole line during the year	17,830
Number of new ties put in track in Michigan	17,330 299
Average number of new stee per mine or road	
ROLLING STOCK.	
Are your freight cars being equipped with automatic couplers as required by act No. 147, see 1885, as amended by act No. 88, session laws of 1887? Yes.	ssion laws of
What pattern or patterns have you adopted for use?  Jamey and Gould.	
How are your passenger cars heated? Baker heater and steam.	
MILEAGE, TRAFFIC, ETC.	
Train mileage.	All in Michigan.
Miles run by passenger trains during the year	191,595 67,059 33,112
Total mileage of trains earning revenue	291,766
Passenger traffic.—Road all in State of Michigan. Number. Miles.	Rate.
Number of through passengers carried, earning revenue	
Total number of passengers carried, earning revenue 221,500	
Number of passengers carried one mile	
Average distance carried	\$0 55.395
Average receipts per mile for through passengers	02.845
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers	02.406 02.378
Estimated cost of carrying each passenger one mile. Cannot state.	

# Freight traffic .- Road all in State of Michigan.

Number of tons of through freight carried, earning revenue	Tons. 36,742 280,405	Miles.	Rate
Total tons of freight carried earning revenue	267,147		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight		2,094,387 5,213,687 7,308,024 57.00 22.68	
Average ton haul for all freight Average amount received for each ton haul. Average receipts ton per mile for through freight Average receipts ton per mile, for local freight Average receipts ton per mile for all freight			\$0 83.78 01.836 01.194 01.235

# FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN. .

# Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	28,760 12,230	3,427	32,187 12,352	12.05 4.68	
Flour Other mill products	12,230	55	959	- 86	
Hay	29,621	797	30,418	11.39	
Tobacco	189	22	211	.08	
Fruit and vegetables	2,774	1,252	4,026	1.51	
Products of animals:					
Live stock	20,490	605	21,095	7.86	
Dressed meats	10	514	52 <u>4</u> 81	.20	
Other packing house products Poultry, game and fish	130	20	150	.01	
Wool	47		47	.02	
Wool	225	152	377	.14	
Products of mines:					
Anthracite coal	4,819	10,980	15,779	5.90	
Bituminous coal	l	1,586	1,586	.59	
Coke	567	241	808	.30	
Ores'Stone, sand and other like articles	175 24,575	35 1,218	210 25,793	.09 9.66	
D 344 44					
Lumber		1			
Logs	19,741	3,156	22,897	8.60	
Shingles)					
Manufactures:		4.000			
Petroleum and other oils	1,090 325	1,950 892	8,040 1,217	1.14 .48	
Sugar Iron, pig and bloom	276	238	514	.20	
Iron and steel rails	58	103	161	.08	
Iron and steel rails Other castings and machinery	2,948	555	3,503	1.31	
Bar and sheet metal	166	108	274	.10	
Cement, brick and lime	2,895	844	8,789	1.40	
Agricultural implements	579	235	814	.30	
Wagons, carriages, tools, etc.	98 610	55 38	153 648	.05 .24	
Wines, liquors and beers Household goods and furniture	356	394	750	.28	
Merchandise	i	6,534	17,582	6.58	
Miscellaneous: Other commodities not mentioned above	9,100	56,202	65,302	24.44	
Total tonnage	174,836	92,311	267,147	100.00	

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The railway company does its own express business.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 59.37 miles; Western Union Telegraph Company.

# Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
American Refrigerator Transportation Co.  Armour Car Lines  Boyd Lunham Provision Express Craig Oil Co. Canda Cattle Car Co.	Chicago, Ill.	3 52 57 96
Chicago Refrigerator Car Co. Cottolene Refrigerator Co. Commerce Despatch Line Cudaby Milwaukee Refrigerator Line. Detroit Iron Furnace Co.	Chicago, Ill	42 8 34
Eureka Transportation Co. Freeman Bros. Hammond Refrigerator Line Kansas City Dressed Beef Line Kingman & Co.	Pontiac, Mich	20 12 80 43
Lipton Refrigerator Line Leonard & Daniels Manhattan Oil Co. Merchants' Despatch Line Morris Coal & Transportation Company.	Piqua, Ohio	8 25 9 08
National Despatch Line Chicago, Boston & Liverpool Line New York Despatch Refrigerator Line St. Charles Car Co. St. Louis Refrigerator Car Co.	St. Albans, Vt	109 23 67 91 51
Streets' Stable Car Lines Swift Refrigerator Line Southern Despatch Lumber Line Sun Oil Co.		1 28 3 38
Union Tank Line	St. Louis, Mo	4 69 7 67

## REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

July 22, N. Holman, flagman, W. Detroit. Struck by train; carelessness. September 9, H. Young, citizen, Detroit. Struck on crossing; lack of caution. November 11, Thomas Brown, messenger, Port Huron. Fell from train; carelessness. December 22, H. Lougheed, boy, W. Detroit. Trespasser; carelessness.

## INJURED.

January 10, Alonzo Hock, Laborer, W. Detroit. Trespasser; carelessness.
June 10, W. Fletcher, brakeman, W. Detroit. Slipped in front of train; lack of caution.
November 21, G. Gabrielson, stockman, Port Huron. Trespasser; carelessness.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.		
Causes of accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.	
Falling from trainsGetting on and off trains		1			<u>1</u>		
Highway crossings Miscellaneous Trespassers on tracks		<u>i</u>	1			2	
Total		2	2		1	2	

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.  Number of persons injured during the year  Number resulting from lack of caution, carelessness, or misconduct	4 8 4 8

# CLASSIFCATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen	2	1	1 2
Total	2	1	8

# STATE OF MICHIGAN, 888.

Almon B. Atwater, superintendent, and James H. Muir accountant, of the Chicago, Detroit & Canada Grand Trunk Junction Bailway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

JAS. H. MUIR.

Subscribed and sworn to before me this 22d day of April A. D. 1897.

LAWRENCE E. LANG, Notary Public, Wayne Co., Mich.

OF THE

# CHICAGO & GRAND TRUNK RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed March 27, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Vice President, WILLIAM J. SPICER, Detroit, Michigan. Secretary, CHARLES PERCY, Montreal, Province of Quebec. Treasurer, JAMES H. MUIR, Detroit, Michigan, General Superintendent, F. H. McGUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Michigan. Assistant Superintendent, A. R. MoINTYRE, Battle Creek, Michigan. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HEBBERT ROBERTS, Fort Gratiot, Michigan. Master Car Builder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant General Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec. First Assistant General Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

#### DIRECTORS.

CHARLES M. HAYS, Montreal, Province of Quebec.
E. W. MEDDAUGH, Detroit, Michigan.
W. J. SPICEE, Detroit, Michigan.
W. C. BEARDSLEY, Auburn, New York.
F. A. Howe, Chicago, Illinois.
DE. F. SKINNEE, Valparaiso, Indiana.
GEORGE B. REEVE, Montreal, Province of Quebec.
Terms expire 14th April, 1897, or when successors are appointed.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 7th January, 1880.
Number of stockholders at date of last election: 285.
Number of stockholders in Michigan at same date: 18.
Amount of full paid stock held in Michigan at same date: \$169,000.
Date of annual meeting of stockholders: Second Wednesday in April.
Fiscal year of company ends: 31st December.
General offices of the company are located at Detroit, Michigan, and Chicago, Illinois.

# GENERAL EXHIBIT.

	GE	NERAL E	XHIBIT.		
m				Debit.	Credit.
Total earnings from operation Total expenses, including capital				\$3,116,894 96	\$3,348,518 00
Net income					\$231,623 04
Interest on funded debt		· · · ·		\$660,000 00	
Rental of leased line	· · · · · · · · · · · · · · · · · · ·			89,196 88 18,945 50	
Balance for the year				\$581,518 79	768,141 83
Balance (loss) last year  Items not included in above, as fol Balance of claims paid on accoun	llows:		chols, Michigan,	824,640 15 on 20th	
October, 1898				110.535 88	
Advances to the Toledo, Saginaw Saginaw & Mackinaw Railroad o Advanced by the Grand Trunk Rai	ompanie	in terms	of traffic agreeme	nts 62,620 58	1
agreements					\$594,139 32 435,175 53
Denciency, carried forward to hea	o year			et 000 014 0F	<del></del>
				\$1,028,314 60	\$1,029,814 85
	ANAT.VRI	S OF CAL	PITAL STOCK.		
Amount authorised by charter or	articles of	associati	оппо		\$6,600,000 00
Par value of shares. Number of shares issued.			66.000	\$100 00	
Amount paid in on common				<b>\$6,600,000 00</b>	)
Total amount paid in as per bo	ooks of th	e compan	y		\$6,600,000 00
Paid in per mile of road owned by	company	, 826.5 mile	99		\$20,214 40
-		FUNDED I	DEBT.		
Class, character and date of i	ssue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, 1880		6%	1st Jan., 1900	London, England, and New York	\$6,000,000 00
Second mortgage bonds, 1882		5%	1st Jan., 1900	and New York New York, N. Y	6,000,000 00
		<u> </u>	<u> </u>		
Total funded debt		<b></b>			\$12,000,000 00
	1	UNFUNDED	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	w liquidated?	Amount.
For miscellaneous					\$5,293,122 14
	B	ECAPITUL	ATION.		
Total funded debt					\$12,000,000 00 5,293,122 14
Total debt liabilities					\$17,293,122 14
Amount of debt liabilities per mil	e of road.	, <b>326.5 mi</b> le	8		52,965 15
Total amount of stock and debt Stock and debt per mile of road, ?	26.5 miles				23,893,122 14 73,179 55
Description of the state of the					

# GENERAL BALANCE SHEET-DR.

		\$19,560,204	49
Cash items:	\$209,618 64		
Due from agents	110,199 11	<b>827,</b> 818	05
Debit balances from companies and individuals Grand Trunk Railway Company of Canada, for interest coupons pledged as		748,627	81
security for advances under traffic agreements  Toledo, Saginaw & Muskegon Bailway Company, for advances under traffic	\$2,611,224 37		
agreement Cincinnati, Saginaw & Mackinaw Bailroad Company, for advances under	103,618 95		
traffic agreement	108,452 94	2,823,296	26
Deficiency carried forward to next year.		435,175	58
Total		\$28,893,122	14
GENERAL BALANCE SHEET—CB.			
Capital stock	<b>\$6.600.000</b> 00	ı	
Funded debt	12,000,000 00	\$18,600,000	00
Unfunded debt: Interest unpaid.	\$224,656 03		
Notes payable Vouchers and accounts Other liabilities (list as follows):	54,564 77 2,187,144 78		
Other liabilities (list as follows): Salaries and wages (paid in January, 1897) Grand Trunk Railway Company of Canada, for advances under traffic	8,460 35	i	
Grand Trunk Railway Company of Canada, for advances under traffic agreements	2,611,224 87		
agreements Toledo, Saginaw & Muskegon Railway, interest coupons held for advances under traffic agreement Cincinnati, Saginaw & Mackinaw Railroad, interest coupons held for	108,618 95	;	
Cincinnati, Saginaw & Mackinaw Railroad, interest coupons held for advances under traffic agreement.	108,452 94		
		5,293,122	
Total		\$23,893,122	14
When purchased: 7th January, 1880. Original cost to present company, of road and equipment. Amount expended since purchase, account of construction. Amount expended since purchase, account of equipment. Total cost to date of report. Average cost per mile of road (not including sidings) 326.5 miles. Proportion of cost for Michigan.		\$12,889,800	78
Proportion of cost for Michigan		5,099,564 1,570,889 19,560,204 59,906 13,419,558	37 34 49 74 50
Proportion of cost for Michigan		5,099,564 1,570,839 19,560,204 59,908 13,419,558	37 34 49 74 50
		5,099,564 1,570,839 19,560,204 59,906 13,419,558	87 84 49 74 50
CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings	E YEAR.	\$50.52	87 84 49 74 50
CHARGES AND CREDITS TO PROPERTY DURING THI	E YEAR.	\$50.52	37 34 49 74 50 ===
CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings	E YEAR.	\$50,522 1,772 6,200	37 34 49 74 50 61 2 42 0 00
CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Improvement of track, extensions and new sidings	E YEAR.	\$50,522 1,772 6,200 \$58,493	37 34 49 74 50 50 61 2 42 0 00 3 03
CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings New cars  Total charges	C YEAR,	\$50,522 1,772 6,200 \$58,493	37 34 49 74 50 50 61 2 42 0 00 3 03
CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Improvement of track, extensions and new sidings.  New buildings.  Total charges.  Total charges.  Total charges to property account as above.  Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGARSSENGER MARNINGS.	C YEAR,	\$50,522 1,772 6,200 \$58,493	37 34 49 74 50 50 61 2 42 0 00 3 03
CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings.  New buildings.  New cars.  Total charges  Total charges to property account as above.  Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIG	C YEAR,	\$50,522 1,777 6,200 \$58,490 58,490	37 34 49 74 50 50 61 2 42 0 00 3 03
CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings	AN. \$252,444 21 229,487 84	\$50,522 1,773 6,200 \$58,492 58,492	37 34 49 374 350 303 303 303 303
CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings	AN. \$252,444 2: 229,487 84	\$50,522 1,777 6,200 \$58,496 58,496	37 34 49 374 350 303 303 303 303
CHARGES AND CREDITS TO PROPERTY DURING THI  MAIN LINE.  Improvement of track, extensions and new sidings New buildings New cars  Total charges  Total charges  Total charges to property account as above Net addition to property account  ANALYSIS OF EARNINGS.—IN STATE OF MICHIG  PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares  Express and baggage	AN.  \$252,444 25 229,487 86 47,981 76	\$50,522 1,773 6,200 \$58,492 58,492 \$481,933	344 344 347 350 3661 303 303 303 303

FREIGHT EARNINGS.		
Main line and branches: Local traffic	\$530,271 21 1,071,588 44	
Total traffic	1,601,859 65	
Total freight department earnings		<b>81,601,859 6</b> 5
Per train mile Per mile of road	\$1 07 7,151 16	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
PASSENGER EARNINGS.		
Main line and branches: Local fares Through fares	\$434,466 94 344,281 77	
Total passenger fares	\$778,698 71	
Express and baggage  Mails Other sources	49,813 <b>9</b> 8 71,972 <b>6</b> 4 21,887 <b>4</b> 3	
Total passenger department earnings		<b>89</b> 21,82 <b>2</b> 76
Per train mile	<b>9</b> 0 83 2,749 49	
FREIGHT EARNINGS.  Main line and branches:		
Local traffic Through traffic	\$816,755 86 1,607,382 65	
Total traffic		
Total freight department earnings		2,424,188 51
Per train mile	\$1 06 7,230 41	
Total transportation earnings, entire line Transportation earnings per mile of road. Transportation earnings per train mile Miscellaneous receipts from operating account, other than for transportation From rents not otherwise previded for.	9,979 90 99 , as follows:	\$3,845,961 27 2,556 78
Total earnings from operation of road		
Total earnings per mile of road. Total earnings per train mile. Proportion of taxable earnings for Michigan	99,987 53 1 00 2,166,355 26 9,671 28	
Total income from all sources		3,348,518 00
Proportion of income for Michigan		2,166,355 26
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Stationery and printing		102,722 00 72,075 20 21,056 89 10,496 54 17,196 13 612 72 277 80
Total		\$411,894 88

# MAINTENANCE OF EQUIPMENT.

REINIERANCE OF EQUIPMENT.	
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars Repairs and renewals of freight cars. Repairs and renewals of work cars. Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	. \$7,457 27
Renairs and renewals of locomotives	230,114 87
Panelse and renowals of research serve	50.634.79
Repairs and renewals of passenger Cars	
Websitz and tenewris of theight cars	. 132,695 57
Repairs and renewals of work cars	2,666 80
Kepairs and renewals of shop machinery and tools	. 33,635.76
Stationery and printing	33,635 76 424 90
Other expenses	12,712 40
Total	\$470,441 86
AVWA	. 0210,922.00
CONDUCTING TRANSPORTATION.	
Superintendence. Engine and roundhouse men	\$37,297 54 298,884 50
Engine and roundhouse men	298,884 50
Water supply for locomotives	283,238 68 16,140 27 15,178 25
Oil tellow and waste for losomotives	18 179 9K
Other annulae for local divisions	0 149 70
Other supplies for focomotives	9,142 79 285,032 45
TRID Service	. 200,012 40
Train supplies and expenses.	. 88,537 75
Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train supplies and expenses Switchmen, flagmen and watchmen	101,763 96
1816KLYDU GYDBURGS	. 74,671 24
Station service	74,671 24 169,540 48
Station supplies	. 19,119 74
Station supplies Switching charges—balance Car mileage—balance	19,119 74 44,116 24 316,934 05
Car mileage—balance	316.934 OS
Hire of equipment	104,253 59 20,566 02
Loss and damage.	20 588 02
Love and usuage.	34,996 27
Injuries to persons	. 04,880 41
Clearing wrecks	. 361 03
Adv. rtising	7.401 12
Outside agencies	95,666 81
Clearing wrecks Adv. rtising Outside agencies Commissions	13,160 97
Stock yards and elevators. Rents for tracks, yards and terminals.	4,145 86
Rents for tracks, yards and terminals	6,990 13
Rent of buildings and other property	3,587 84
Stationery and printing	14,802 24
Other eveness	R 255 97
Rent of buildings and other property Stationery and printing Other expenses	6,355 97
Other expenses	
Total	
Total GENERAL EXPENSES.	\$1,971,899 24
Total GENERAL EXPENSES.	\$1,971,899 24
Total GENERAL EXPENSES.	\$1,971,899 24
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office are named and annulies.	\$1,971,899 24 \$17,402 20 26,186 75 2,085 82
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies.	\$1,971,599 24 \$17,402 20 26,186 75 2,095 82 11,430 02
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies.	\$1,971,599 24 \$17,402 20 26,186 75 2,095 82 11,430 02
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies.	\$1,971,599 24 \$17,402 20 26,186 75 2,095 82 11,430 02
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies.	\$1,971,599 24 \$17,402 20 26,186 75 2,095 82 11,430 02
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office are named and annulies.	\$1,971,599 24 \$17,402 20 26,186 75 2,095 82 11,430 02
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes	\$1,971,899 24 \$117,402 20 26,188 75 2,095 82 11,430 02 10,067 61 550 75 185,426 83
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies.	\$1,971,899 24 \$117,402 20 26,188 75 2,095 82 11,430 02 10,067 61 550 75 185,426 83
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of cierks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes	\$1,971,899 24 \$117,402 20 26,188 75 2,095 82 11,430 02 10,067 61 550 75 185,426 83
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of cierks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes	\$1,971,899 24 \$117,402 20 26,188 75 2,095 82 11,430 02 10,067 61 550 75 185,426 83
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of cierks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes	\$1,971,899 24 \$117,402 20 26,188 75 2,095 82 11,430 02 10,067 61 550 75 185,426 83
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of cierks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes	\$1,971,899 24 \$117,402 20 26,188 75 2,095 82 11,430 02 10,067 61 550 75 185,426 83
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes  Total	\$1,971,899 24 \$117,402 20 26,188 75 2,095 82 11,430 02 10,067 61 550 75 185,426 83
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes	\$1,971,899 24 \$17,402 20 26,186 75 2,095 82 11,490 02 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent	\$1,971,699 24 
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses	\$1,971,699 24 \$117,402 20 26,184 75 2,095 82 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses	\$1,971,899 24 \$17,402 20 26,186 75 2,085 82 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.20 Maintenance of equipment 15.50	\$1,971,899 24 \$17,402 20 26,186 75 2,085 82 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2	\$1,971,899 24 \$17,402 20 26,186 75 2,095 75 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2	\$1,971,899 24 \$17,402 20 26,186 75 2,095 75 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44	\$1,971,899 24 \$17,402 20 26,186 75 2,095 75 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44	\$1,971,899 24 \$117,402 20 26,188 75 2,085 82 11,430 02 20,087 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 General expenses, including taxes 8.44	\$1,971,899 24 \$17,402 20 26,186 75 2,095 75 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48
Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44 Total operating expenses and taxes 100.00	\$1,971,899 24 \$117,402 20 26,186 75 2,095 82 11,430 02 10,67 61 550 75 185,426 33 \$263,159 48 0 \$411,394 38 470,441 36 1,971,899 24 263,159 48 0 \$3,116,894 96
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44  Total operating expenses and taxes per mile of road	\$1,971,899 24 \$17,402 20 26,186 75 2,095 85 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48 0 \$411,394 38 4 470,441 86 1,971,899 24 263,159 48 0 \$3,116,894 96 9,296 67
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44  Total operating expenses and taxes per mile of road	\$1,971,899 24 \$17,402 20 26,186 75 2,095 85 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48 0 \$411,394 38 4 470,441 86 1,971,899 24 263,159 48 0 \$3,116,894 96 9,296 67
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44  Total operating expenses and taxes per mile of road	\$1,971,899 24 \$17,402 20 26,186 75 2,095 85 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48 0 \$411,394 38 4 470,441 86 1,971,899 24 263,159 48 0 \$3,116,894 96 9,296 67
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44  Total operating expenses and taxes per mile of road	\$1,971,899 24 \$17,402 20 26,186 75 2,095 85 11,430 02 20,067 61 550 75 185,426 33 \$263,159 48 0 \$411,394 38 4 470,441 86 1,971,899 24 263,159 48 0 \$3,116,894 96 9,296 67
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 General expenses, including taxes 8.4  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 3,36,3036 miles 2.9  Proportion of operating expenses and taxes for Michigan 7.7  Total perpention of expenses for Michigan 7.7  Total proportion of expenses for Michigan 7.7	\$1,971,899 24  \$117,402 20 26,186 75 2,085 82 11,430 02 20,087 61 550 75 185,426 33 \$263,159 48  \$411,394 38 470,441 86 1,971,899 24 263,159 48 \$3,116,894 96 9,296 67 3 2,013,748 65 2,013,748 65
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 General expenses, including taxes 8.4  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 3,36,3036 miles 2.9  Proportion of operating expenses and taxes for Michigan 7.7  Total perpention of expenses for Michigan 7.7  Total proportion of expenses for Michigan 7.7	\$1,971,899 24  \$117,402 20 26,186 75 2,085 82 11,430 02 20,087 61 550 75 185,426 33 \$263,159 48  \$411,394 38 470,441 86 1,971,899 24 263,159 48 \$3,116,894 96 9,296 67 3 2,013,748 65 2,013,748 65
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 General expenses, including taxes 8.4  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 3,36,3036 miles 2.9  Proportion of operating expenses and taxes for Michigan 7.7  Total perpention of expenses for Michigan 7.7  Total proportion of expenses for Michigan 7.7	\$1,971,899 24  \$117,402 20 26,186 75 2,085 82 11,430 02 20,087 61 550 75 185,426 33 \$263,159 48  \$411,394 38 470,441 86 1,971,899 24 263,159 48 \$3,116,894 96 9,296 67 3 2,013,748 65 2,013,748 65
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 General expenses, including taxes 8.4  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 3,36,3036 miles 2.9  Proportion of operating expenses and taxes for Michigan 7.7  Total perpention of expenses for Michigan 7.7  Total proportion of expenses for Michigan 7.7	\$1,971,899 24  \$117,402 20 26,186 75 2,085 82 11,430 02 20,087 61 550 75 185,426 33 \$263,159 48  \$411,394 38 470,441 86 1,971,899 24 263,159 48 \$3,116,894 96 9,296 67 3 2,013,748 65 2,013,748 65
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.44  Total operating expenses and taxes per mile of road	\$1,971,899 24  \$117,402 20 26,186 75 2,085 82 11,430 02 20,087 61 550 75 185,426 33 \$263,159 48  \$411,394 38 470,441 86 1,971,899 24 263,159 48 \$3,116,894 96 9,296 67 3 2,013,748 65 2,013,748 65
Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses Stationary and printing (general offices)  Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expenses Maintenance of way and structures 13.2 Maintenance of equipment 15.0 Conducting transportation 63.2 General expenses, including taxes 8.4  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 3,33,036 miles Proportion of operating expenses and taxes for Michigan 7.1  Total proportion of expenses for Michigan 7.1  Total proportion of expenses for Michigan 7.1  Total proportion of expenses for Michigan 7.1  Total proportion of expenses and thinking 1.5  Proportion of expenses for Michigan 7.1  Total proportion of expenses for Michigan 7.1	\$1,971,899 24  \$117,402 20 26,186 75 2,085 82 11,430 02 20,087 61 550 75 185,426 33 \$263,159 48  \$411,394 38 470,441 86 1,971,899 24 263,159 48 \$3,116,894 96 9,296 67 3 2,013,748 65 2,013,748 65

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Port Huron, Michigan, to Chicago, Illinois, 1st February, 1880.

	Miles.	Miles.
In Michigan, from Port Huron, Mich., to Michigan and Indiana State line In Indiana, from Michigan and Indiana State line to Indiana and Illinois	224	~200
State line In Illinois, from Indiana and Illinois State line to Elsdon, Ill.	80. <b>62</b> 21.88	
Total length completed		826.50
Length of double track on main line Total length of road belonging to this company	20.11	326.50
Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spurs, and other tracks not above en	umerated	224 65.04
Aggregate length of tracks in Michigan belonging to this company, comput		289.04
Gauge of track, 4 feet 8½ inches.		
Proprietary or leased roads operated by this company.  Name, description and length of each:		
	3.90 4.87 8.77 325.27	In Michigan.

# Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality?

Flint & Pere Marquette R. R. at Tunnel station in Port Huron, at Flint, and at Grand Trunk Junction near Port Huron.

Grand Trunk R'y near Port Huron.

Detroit & Bay City R. R. at Lapeer.

Detroit, Grand Haven & Milwaukee R'y at Durand.

Cincinnati, Saginaw & Mackinaw R. R. at Durand.

Ann Arbor R. R. at Durand.

Detroit, Lansing & Northern R. R. at Trowbridge.

Michigan Central R. R. at Lansing, Charlotte, Nichols and Cassopolis.

Lake Shore & Michigan Southern R'y at Lansing and Schoolcraft.

Cincinnati, Jackson & Mackinaw R. R. at Battle Creek.

Grand Rapids & Indiana R. R. at Vicksburg.

What railroads cross your road either over or under your grade in this State, and where? Under:
Pontiac, Oxford & Northern B. B. near Imlay City.

At what crossings are interlocking and derailing switches in operation?
Grand Trunk Junction, Lapser, Trowbridge, Lansing, Nichols, Schoolcraft and Cassopolis.

What pattern or patterns have you adopted? Union Switch & Signal Company.

Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmon  Number of crossings at which there are electric or automatic signals.	263 18 13
What pattern or patterns in use? 2 O'Neil, 1 American Signal Co. highway crossing alarm, 1 Morgan, and 9 push button electric skeleton bells worked by flagmen or operator.	
Number of crossings of highways over or under railroad: over, 2; under, 2	4 2
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, Session Laws of 18837 Yes.	
How are they treated?  Hart's patent blocking and plank.	
Stations.	
Number of stations on whole lines	7 <u>4</u> 46
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	2, <b>914</b> 1, <b>94</b> 7
Classify your employés as per following list:	Number.
BaggagemenBrakemen.	36 225
Conductors	100
Engineers Firemen	134 184
Laborers	830 624
Shopmen. Yardmen	624 92
Others	739
·	
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	456
Road bed and track.	
Number of track sections in Michigan	45
Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line and sidings during the year.  Number of new ties put in track and sidings in Michigan	5 5
Number of new ties put in whole line and sidings during the year.	204,459
Number of new ties put in track and sidings in Michigan	158,342 435
New rails nut in track:	200
Steel [tons, 10,132], miles Total miles of track laid with new rails	96 96
B. H	
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, linear feet	150
Timber culverts replaced during the year:	Number.
With iron pipe	12 12
With timber	=====

# POLITING STOCK

ROLLING STOCK.		
•	Number.	Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender		\$974 000 00
Number of passenger cars—12 wheel, including official cars  Number of passenger cars—8 wheel, including official cars	12	
Number of express and baggage cars	. 19	
Number of box freight cars		
Number of stock cars		
Number of platform cars.	14	
Number of conductors' way cars.	63	
Other care.	ĩ	
Total	. 430	\$290,630 00
Number of locomotives equipped with power brakes		. 49
What patterns of power brakes have you in use, and number of locomotives and Locomotives, with Westinghouse air brakes Locomotives, with Eames air brakes Cars, with Westinghouse air brakes		. 106 22
Total		. 195
•		
Are your freight cars being equipped with automatic couplers as required by Ac of 1885, as amended by act No. 88, session laws of 1877? Yes.	et No. 147	, session laws
What pattern or patterns have you adopted for use?		

What pattern or patterns have you adopted for use? Gould and Janney.

How are your passenger cars heated?
Baker heater (hot water), and steam heat.

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MILEAGE, TRAFFIC, ETC.		
Train mileage.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.	2,063,6¥6 206,278	n Michigan. 664,216 1,375,784 187,515 2,177,515
Passenger traffic.—Entire lines.  Number of through passengers carried, earning revenue 68,66 Number of local passengers carried, earning revenue 1,129,77	6 .	Rate.
Total number of passengers carried, earning revenue 1,198,38  Number of passengers carried one mile 47,545,66  Average distance carried.  Average amount received from each passenger  Average receipts per mile for through passengers.  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers	39.7	\$0 64.98 01.50 01.77 01.64
Passenger traffic.—In State of Michtgan.  Number of through passengers carried, earning revenue	18 34 23 81.6	\$1 38.78 01.49 01.80 01.64

Freight traffic.—Entire lines.	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	1,055,651 632,754		,
Total tons of freight carried, earning revenue	1,688,405		
Total mileage of through freight		347,694,281 87,395,040	
Total freight mileage or tons carried one mile		435,089,271	
Average ton haul for through freight  Average ton haul for local freight		329.4 138.1	
Average ton haul for all freight		257.7	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight			\$1 43.58 00.46 00.98 00.56
Freight traffic.—In State of Michigan	n.		
Number of tons of through freight carried, earning revenue	1,055,351 421,836		
Total tons of freight carried, earning revenue	1,477,487		
Total mileage of through freight		231,796,154 58,263,360	
Total freight mileage or tons carried one mile		290,059,514	
Average ton haul for through freight  Average ton haul for local freight		219.6 138.1	
Average ton haul for all freight.		196.3	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight			\$1 08.42 00.46 00.91 00.65

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

Commodity.	Freight originating on this road.	Freight received from connecting		Total freight tonnage.		
Commonty.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.		
Products of agriculture:						
Grain	49,984	241,228 30,320	291,212	17.25		
Flour Other mill products	8,382	30,320 23,917	88,702	2.29 1.74		
Hay	5,498 29,613	10,163	29,415 39,776	2.36		
Tobacco.	20,013	341	346	.08		
Cotton	1	13.697	13,697	.81		
Cotton	14,628	36.718	51.346	3.04		
Potatoes	1,625	4,079	5,704	.84		
Products of animals:						
Live stock	14,763	258,185	272,948	16.17		
Dressed meats.	93,815	31,488 15,308 6,354	125,308 67,721	7.42 4.01		
Other packing house products Poultry, game and fish	52,413 2,762	15,808	9.116	4.01		
Wool	399	653	1,052	.04 30.		
Wool Hides and leather	1,277	21,916	23,193	1.87		
Products of mines:	ł		ļ			
Anthracite coal	90	104,888	104,978	6.22		
Bituminous coal	100	16,281	16,881	.97		
Coke	] 1	894	895	.05		
Ores	<del></del>	1,351	1,351	.06		
Ores Stone, sand, and other like articles Salt	1,446	25,113 10,590	26,559 10,614	1.57 .68		
Products of forest:						
Lumber	12,590	72,700	85,290	5.05		
Logs	2,941	6,198	9,139			
Shingles	1,399	8,077	9,476	.54 .56		
Manufactures:						
Petroleum and other oils	1,002	6,282	7,284	.43		
Sugar	61	16,661 918	16,722 918	.94		
Naval stores Iron, pig and bloom	765	5,315	6,080	.00		
Iron and steel rails	iii	7,465	7 578			
Iron and steel rails. Other castings and machinery	2,945	7,087	10,082	. ac		
Bar and sheet metal	1 515	1.508	2,028	.11		
Cament, brick and lime	1 217	6.215	8.032	.48		
Agricultural implements	9.294	2,588	5,812	.84		
Wagons, carriages, tools, etc. Wines, liquors and beers	5,915	1,891	7,806	.47		
Household goods and furniture	238 1,997	3,715 2,771	3,958 4,768	. 99 .05 .34 .60 .11 .44 .47 .22		
Merchandise		92,088	131,536	7.79		
Miscellaneous:	l					
Other commodities not mentioned above	81,028	160,626	241,649	14.81		
Total tonnage	432,871	1,255,584	1,688,405	100.00		

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

# Company's material excluded.

Commodity.	Freight originating	originating connecting		Total freight tonnage.		
Commonly.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.		
Products of agriculture:						
Grain	41,520	200,035	241,555	16.85		
Flour Other mill products	7,089	24,902	81,991	2.17		
Other mill products	4,156 24,950	19,926	, 24,082 33,418	1.63 2.26		
HayCotton	24,800	8,468 10,976	10,976	.74		
CottonFruit and vegetables	11.630	90,724	42,354	2.87		
Potatoes	1,328	3,328	4,656	.82		
Products of animals:						
Live stock	12,768	256,875	269,638 125,303	18.25		
Dressed meats Other packing house products Poultry, game and fish Wool	98,815	31,488	125,303	8.48		
Other packing nouse products	52,413 2,241	15,308 4,982	67,721 7,228	4.58 .49		
Wool	250	521	771	.05		
Hides and leather	996	19,362	20,858	1.87		
Products of mines:	1					
Anthracite coal	75	87,392 13,281	87,467	5.92		
Bituminous coal.	83	13,281	13,364 728	.91		
Coke	1	727 1,079	1.079	.00		
Ores Stone, sand, and other like articles	1,162	20,283	21,445	1.48		
Salt.	19	20,283 8,191	8,210	.56		
Products of forest:						
Lumber	10,795	59,582	70,877	4.76		
Logs Shingles	2,407 1,160	6,198 7,082	8,605 8,242	.58 .56		
Manufactures:	1	1				
Petroleum and other oils	830	4,728	5,558	.36		
Sugar	50	12,392	12,442	8.		
Naval stores		747	747	.00 .33 .41		
Iron, pig and bloom	660	4,128	4,788	.33		
Other castings and machinery	93 2,490	5,922	6,015 8,013	.5		
Bar and sheet metal.	415	5,523 1,129	1,344	.3		
Comont brick and lime	1 1 101	1,050	2,544	.1 .1' .8		
Agricultural implements	2,656	2 019	4.675			
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture	4,980	1,523	6,503	.4		
Wines, liquors and beers.	190	2,492	2,682	.18		
Household goods and furniture	1,662	2,163	3,825	.20		
Merchandise	32,785	80,726	118,511	7.68		
Miscellaneous:		400 010				
Other commodities not mentioned above	67,235	137,842	205,077	13.88		
Total tonnage	384,398	1,093,094	1,477,487	100.00		

#### ADDITIONAL QUESTIONS.

#### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

National Express Company pays \$50 per day for local business averaging 7,000 lbs per day; also \$70.45 per day for through business averaging 14,000 lbs. per day. Annual payment for through and local business to be not less than \$40,000. Freight taken at trains.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Western Union Telegraph Company.

# TRANSPORTATION COMPANIES.

Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Name of company.	General office.	Amount paid.
Wagner Palace Car Co	New York, N. Y. (On mileage basis) Chicago, Ill. (On mileage basis)	\$234 50 34,780 78
Total		\$35,015 28

Both these companies get the fares for seats and berths.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### KILLED.

January 11, Horace Pratt, trespasser, Flint. Walking on track; his carelessness; inquest "Company exonerated."

January 12, Wm. Donoghue, brakeman, Nichols. Caught between cars; accidental; inquest, "Company exonerated."

February 19, A. Cannon, brakeman, Marcellus. Rear collision; no inquest.

June 30, Isaac T. Barton, trespasser, Battle Creek. Walking on track; inquest, "Company exonerated."

July 15, S. Bombonnais, sectionman, Goodell's. Walking on track; inquest, "Struck by cars," intoxicated.

August 11, unknown man, Haslett Park. Stealing a ride; inquest, "Company exonerated."

October 14, B. B. Sprowl, laborer, trespasser, Flint. His carelessness; No inquest.

### INJURED.

July 4, Fred Robinson, citisen, Edwardsburg. Highway collision; lack of caution.
September 12, Jacob Detwiler, brakeman, Nichols. Coupling; lack of caution.
September 25, W. Hutchinson, trespasser, Durand. Fell from train; lack of caution.
October 4, O. D. Glove, fireman, Imlay City. Jumped off engine; lack of caution.
October 27, W. H. Finch, yard brakeman, Durand. Four toes run over; lack of caution.
December 8, P. J. Cloughesy, Tunnel Junction. Fell from train; lack of caution.
December 17, Andrew Downey, tramp, Charlotte. Stealing a ride and fell from train; lack of caution.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.		Injured.		
Causes or accident.	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Collisions		1				
Coupling cars Falling from trains Jetting on and off trains					1	
Highway crossings Miscellaneous Crespassers on trains		1			i	
Frespassers on tracks			3			
Total		3	9 4		4	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	7
Number of persons injured during the year	7
Number of casualties purely accidental	1
Number resulting from lack of caution, carelessness or misconduct	13
Persons killed or injured while intoxicated	. 1
Trespassers and tramps killed or injured	6

# CLASSIFICATION OF EMPLOYÉS.

# KILLED AND INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Trainmen Laborers	2	3 1	\$ 1 1
Total	3	4	7

# STATE OF MICHIGAN, as.

Almon B. Atwater, superintendent, and James H. Muir, treasurer, of the Chicago and Grand Trunk Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December. A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

A. B. ATWATER. JAS. H. MUIR.

Subscribed and sworn to before me this 26th day of March, A. D. 1897.

LAWRENCE F. LANG, Notary Public, County of Wayne.

# ANNUAL REPORT

# OF THE

# OHICAGO, KALAMAZOO & SAGINAW RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed May 1, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, E. WOODBURY, Kalamazoo.

Pice President, J. H. DEWING, Kalamazoo.

Secretary, H. C. POTTER, Kalamazoo.

Auditor, H. C. POTTER, Kalamazoo.

Treasurer, H. C. POTTER, Kalamazoo.

General Manager, J. H. DEWING. Kalamazoo.

General Superintendent, L. SERGEANT, Kalamazoo.

General Passenger Agent, H. C. POTTER, Kalamazoo.

General Freight Agent, H. C. POTTER, Kalamazoo.

# DIRECTORS.

E. WOODBURY, Kalamazoo, Mich.
J. H. DEWING, Kalamazoo, Mich.
JAMES MONROE, Kalamazoo, Mich.
O. M. ALLEN, Kalamazoo, Mich.
B. A. BUSH, Kalamazoo, Mich.
LEWIS H. WITHEY, Grand Rapids, Mich.
ALFRED E. WATSON, Hartford, Vt.
Terms expire September 14, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 7, 1883. Amended December 10, 1887. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$449,900. Date of annual meeting of stockholders: Second Tuesday in September. Fiscal year of company ends: December 31. General offices of the company are located at Kalamazoo, Mich.

### GENERAL EXHIBIT.

Total earnings from operation	Debit.	Credit. \$52,110 51
Total earnings from operation Total expenses, including taxes	<b>\$84,436</b> 56	402,110 01
Net income		\$17,678 95
Interest on funded debt	14,368 52	
Balance applicable to dividends		\$8,805 48
Items not included in above, as follows: Paid on unfunded debt	3,805 43	

#### ANALYSIS OF CAPITAL STOCK

	ANALYSIS OF CAPITAL STOCK.	•
Amount authorized by charter or	articles of association	\$2,000,000 00
Par value of shares.  Number of shares issued.  Amount paid in on common	\$100 00 4,500 \$450,000 00	
Total amount paid in, as per l	books of the company	\$450,000 00
Paid in per mile of road owned by	company, 44.20 miles	10,181 00
	ANALYSIS OF THE ASSESSMENT	
•	ANALYSIS OF DEBT ACCOUNTS.	
	FUNDED DEBT.	
\$225,000 00 first mortgage, 6%, 5 yes as trustee, but said bonds have:	ar bonds, authorized to be issued by the Union Trust Co., not been sold and are in the hands of the company.	of Detroit,
	UNFUNDED DEBT.	
For what incurred.	Is the same to be funded or how liquidated.	Amount.
For miscellaneous	To be funded and paid from earnings	\$529,175 89
	RECAPITULATION.	
Total debt liabilities  Amount of debt liabilities per mil  Total amount of stock and debt.  Stock and debt per mile of road,	le of road, 44.20 miles	\$529,175 89 11,972 27 979,175 89 22,153 27
G	ENERAL BALANCE SHEET.—Dr.	
Construction and equipment acco	ount	\$902,514 40
Bills receivable	\$1,929 18 67,925 00 2,407 43	
Due from agents	2,407 48	72,261 61
Other assets: Materials and supplies	and individuals.	1,166 <b>36</b> 3,238 02
Total	and individuals	979,175 89
•		
	FENERAL BALANCE SHEET.—Cr.	\$450,000 00
Unfunded debt:		\$150°,000 00
Other hadinties (hat as ionowa);		
	1,042 21	
Total		979,175 39
C	COST OF ROAD AND EQUIPMENT.	
	PURCHASED BY PRESENT COMPANY.	
Original cost to present company	Construction Co., January 1, 1896. , of road and equipment, account of construction	\$900,000 00 1,714 40
Amount expended since purchase	, account of construction.	800 00
		\$902,514 40

Average cost per mile of road (not including sidings), 44.20 miles

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE.		
Extensions and new sidings		\$1,510 76 208 64 800 00
Total		\$2,514 40
Total charges to property account as above		2,514 40 2,514 40
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA	N.	
PASSENGER HARNINGS.		
Main line and branches: Local fares Through fares	\$15,707 86 1,870 78	
Total passenger fares	\$17,578 64	
Express and baggage Mails Other sources	870 42 1,928 60 226 40	
Total passenger department earnings	•	\$20,639 06
Per train mile Per mile of road	\$0 36.1 466 94	
FREIGHT EARNINGS.		
Main line and branches: Total traffic Other sources—freight department	\$81,225 04 246 41	
Total freight department earnings		81,471 45
Per train mile Per mile of road	\$1 18 712 02	
Total transportation earnings, entire line		<b>\$</b> 52,110 51
Transportation earnings per mile of road Transportation earnings per train mile Total earnings from operation of road Total earnings per mile of road Total earnings per train mile	1,178 97 61.3 1,178 97 61.3	52,110 51
Proportion of income for Michigan		\$52,110 51
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Total		\$6,480 58
MAINTHNANCE OF EQUIPMENT.		
Total		3,163 28
CONDUCTING TRANSPORTATION.		
Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train service. Train supplies and expenses Switchmen, fiagmen and watchmen Telegraph expenses Station service. Station supplies Switching charges—balance Car mileage—balance Loss and damage Advertising Outside agencies Stationery and printing		4,465 98 112 28 245 90 6,387 29 94 16 705 04 147 33 4,120 97 248 32 780 59 799 65 17 00 85 25 73 45 276 17

# GENERAL EXPENSES.

Salaries of general officers. Salaries of clerks and attendants		\$3,300 00 1,442 25 397 20
General office expenses and supplies		101 80
Stationery and printing (general offices)		50 00 1,042 21
Total		\$6,338 46
RECAPITULATION OF EXPENSES.	Per cent o	t
Maintenance of way and structures	18.8	\$6,480 58
Maintenance of equipment Conducting transportation	9.2 58.6	\$6,480 58 8,168 28 18,459 29
General expenses, including taxes	18.4	6,388 46
Total operating expenses and taxes.		\$84,496 56
		451,255 65
Operating expenses and taxes per mile of road	779 10	
84.894 miles	40.5	94 49e Ke
Total proportion of expenses for Michigan Percentage of expenses to earnings, 66%.		34,436 56
Net earnings per mile of road	20.8	399 86
Net earnings per train mile	20.0	
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Kalamazoo to Woodbury, September 1, 1889.		
MAIN LINE.		
In Michigan, from Kalamazoo to Woodbury		Miles. 44.20
Total length completed	<b></b>	44.20
Aggregate length in Michigan of sidings, spurs and other tracks not above entaggregate length of tracks in Michigan belonging to this company, compute track	ed as single	4.09 48.29
Gauge of track, 4 feet 8% inches.		
Number of bridges and trestles in Michigan.		A
Wooden bridges	Number. 38	Aggregate length, feet. 1,430
-		
Crossings.—Railroad and Highway.		
What railroads cross your road at grade in this State, and at what locality? C., J. & M. R. R. at Richland Junction. M. C. R. R. at Hastings. L. S. & M. S. R. R. at Kalamazoo.		
At what crossings are interlocking and derailing switches in operation?		
All.  What pattern or patterns have you adopted?  Gavit Int. S. & S. Co.  Union S. & S. Co.		
Number of crossings of highways at grade in this State Number of crossings of highways at grade in this State at which there are gate	e or flagmen	6 <u>4</u> 1
Are your frogs and guard rails blocked as required by act 174, session laws of Yes,	_	
How are they treated? Wood.		
Stations.		
Number of stations on whole lines.		12

# Employés.

Number of persons regularly employed on all roads operated by company officials  Same in Michigan	, including	52
		52 Number.
Classify your employés as per following list:		
BaggagemenBrakemen		1
Conductors		2 2 3 21 2 2 21
Engineers		2
Firemen Laborers		21
Yardmen		2
Others		21
REPAIRS AND RENEWALS.		
Fencing in Michigan.		• •
How many miles of fencing have you?		87
Road bed and track.		
Number of track sections in Michigan		7
Average lengths of sections, miles		61%
Average number of men in each section gang		5,000
Number of new ties put in track in Michigan.		3,000
ROLLING STOCK.	,	Present esti-
•		nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	4	\$21,000 00
· ·		
Total.	4	\$21,000 00
No. 1		*4 000 00
Number of passenger cars—8-wheel, including official cars	2 2	\$4,000 00 2,100 00
Number of box freight cars.	2	900 00
Number of platform cars	10	2,000 00
Number of conductors' way cars	.1	150 00 850 00
Other cars	15	200 00
Total	82	\$30,500 00
Number of locomotives equipped with power brakes		4 1
What patterns of power brakes have you in use, and number of locomotives an	d cars with	each?
Westinghouse—9.  How are your passenger cars heated?  Steam from locomotives.		
SORII IVII IOOIIOM TOS		
MILEAGE, TRAFFIC, ETC.		
Train mileage.		
		All in Michigan.
Miles run by passenger trains during the year		57,084
Miles run by mixed trains.		27,810
Total mileage of trains earning revenue.		84,894
Torest minages of mains serming to send of the service of the serv		
Passenger Traffic.—In State of Michigan.		
Number.	Miles.	Rate.
Number of through passengers carried, earning revenue		
Total number of passengers carried, earning revenue		
Number of passengers carried one mile		
Average distance carried	16.61	
Average amount received from each passenger  Average receipts per mile for through passengers		\$0 43
Average receipts per mile for through passengers		02.7 02.6
Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers		02.6
mid-mile mile has been been bar ween and me been barrens and see the been been been been been been been be		

# Freight traffic.-In State of Michigan.

pro-gravit drugged the State of Execute	gure.		
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 42,068 18,706	Miles.	Rate.
Total tons of freight carried, earning revenue	60,774		
Total mileage of through freight. Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight		16.01	
Average ton haul for all freight		17.98	
Average amount received for each ton haul Average receipts ton per mile, for through freight. Average receipts ton per mile, for local freight. Average receipts ton per mile, for all freight.	· • • • • • • • • • • • • • • • • • • •		\$0 51 08 02.2 02.8

# FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

# Company's material excluded.

a	Freight originating	Freight received from connecting	Total freight tonnage.		
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:	2,501	324	2,825	4.65	
Flour	146	06/2	148	.24	
Other mill products	836	11	847	1.89	
Hay Fruit and vegetables	1	1	] "		
Potatoes	24	20	44	.07	
Products of animals: Live stock	1,094 42	65	1,0 <del>94</del> 107	1.80 .18	
Products of mines : Anthracite coal Bituminous coal Stone, sand and other like articles Salt	2,565	27,214 9 15	27,214 2,574 15	44.78 4.23	
Products of forest: Lumber	930	3,229	4,169	6.86	
Manufactures: Petroleum and other oils	91 12 1.812	31 384 90 434 64	31 425 102 2,246 163 855	.05 .70 .17 3.69 .27	
Merchandise	4,760	2,395	7,155	11.77	
Miscellaneous:					
Other commodities not mentioned above	6,064	4,698	10,762	17. <b>7</b> 1	
Total tonnage	21,831	38,943	60,774	100.00	

# ADDITIONAL QUESTIONS.

# Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Take freight at depot.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

Forty-five miles, owned by company; operated with telephones.

STATE OF MICHIGAN, BS. COUNTY OF KALAMAZOO,

J. H. Dewing, general manager, and H. C. Potter, secretary, of the Chicago, Kalamasoo & Saginaw Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

J. H. DEWING. H. C. POTTER.

Subscribed and sworn to before me this 30th day of April, A. D. 1897.

MARINUS SCHRIRR, Notary Public.

9

# ANNUAL REPORT

OF THE

# CHICAGO, MILWAUKEE & ST. PAUL RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed May 17, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ROSWELL MILLER, Chicago.
Vice President, FRANK S. BOND, New York.
Secretary, P. M. MYERS, Milwaukee.
General Auditor, W. N. D. WINNE, Chicago.
Treasurer, F. G. RANNEY, Chicago.
Second Vice President and General Manager, A. J. EARLING, Chicago.
General Superintendent, W. G. COLLINS, Chicago.
Assistant General Superintendent in Michigan, W. J. UNDERWOOD, Milwaukee.
Division Superintendent in Michigan, R. B. MINTURN, Green Bay.
Chief Engineer, D. W. WHITTEMORE, Chicago.
Superintendent of Telegraph, U. J. FRY, Milwaukee.
General Passenger and Ticket Agent, G. H. HEAFFORD, Chicago.
General Freight Agent, J. H. HILAND, Chicago.
General Counsel, Geo. R. PECK, Chicago.

# DIRECTORS.

PHILIP D. ARMOUR, Chicago.
AUGUST BELMONT, New York.
FRANK S. BOND, New York.
CHARLES H. COSTER, New York.
CHARLES D. DICKEY, JR., New York.
PETER GEDDES, New York.
FREDERICK LAYTON, Milwaukee.
JOSHPH MILLBANK, New York.
ROSWELL MILLER, Chicago.
J. M. MCKINLAY, New York.
WM. ROCKEFELLER, New York.
SAMUEL SPENCRE, New York.
A. VANSANTVOORD, New York.
Terms expire September, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 5, 1868.

Number of stockholders at date of last election: 4,766.

Number of stockholders in Michigan at same date: 14.

Amount of full paid stock held in Michigan at same date: \$56,100.00.

Date of annual meeting of stockholders: September.

Fiscal year of company ends June 30.

General offices of the company are located at Chicago, Ill.

GENERAL EXHIBIT.	Debit.	Credit.	
Total earnings from operation			67
Net income		\$11,837,302	29
Interest on funded debt	\$7,578,104 01	•	
Balance applicable to dividends		\$4,314,198	28
Dividends declared, 7 per cent preferred   \$1,872,178 00   Dividends declared, 4 per cent common   1,841,090 44	3,713,268 44		
Balance for the year		600,929	84
Balance (profit and loss) last year		8,031,481	64
Items not included in above, as follows: Income from other sources. Less other deductions	\$302,577 67 229,830 00	\$8,632,411	
Balance forward to next year		\$8,705,159	
analysis of capital stock.			
Par value of shares. \$100 00 Number of shares issued	\$48,027,261 00 27,285,900 00	}	
Total amount paid in as per books of the company		- \$73,813,161	00
Paid in per mile of road owned by company, 6,150.75 miles		11,919	39

# ANALYSIS OF DEBT ACCOUNTS. PURIORD DEBT.

1		-						
		Time.	De.			Interest	rest.	
	Description of bonds.	Date of imue	When due.	Amount ontetanding.	Rate.	When payable.	Amount se- crued during the yest.	Amount paid during the year.
9	Iowa & Minnesota division	1867	1807	8	7 per cent.	pne	8	8
2	Prairie du theo division la mortgage.		188	1,108,000 60		Fro. and Aug	80 283 28	33.5
9	leage & Milwaukee div		1908	3		Jan. and July.	3	8
ğ			88	987	::	::	윷	25
å	Dr. FROM (of Envery Hydelon, Decilled		200		3	::	97	25
9 6		1872	20	8	:	;	8	8
٥	Cossy Philipped mortgage		7051	S	:	:	죓	8
6		_	200	8	: : :-:	::	8	8
7	Termit a, Dorigage	_	183	88	::		8	8
3		1880	200		:		28	35
	Figure 16 15 to the division afterests:		100	38	;		38	3
	Southwestern derive n	_	1906	000,000	:	:	8	8
	dotsiv		1010	8	-	11 11	3	3
•			9	88			8	8
ਲ			70101	38	::	: :	38	38
	Telon		200	38	:	: ::	38	3
	. 1	1880	1920	38	:	: ::	32	3
	distant		1920	8	: 9	:	8	8
9	Vision .		1951	98	::	99 99	2	3
ø	Chicago & Lake Superier divinion			88			8	6
*	Chicago & Miscutti Kiver division	1000	1018	39	: : :		38	2 %
976		_	1824	8	:	:	18	18
1	Wisconsin Values R R 4.0	_	1909	8	:	17 17 11	3	8
Q	Income Sanking Fund convertible	_	1916	8	***	:	8	8
t	Genera, mortgaga	_	<b>20</b>	28		• ;	8	ĝ
	Malter & Northern R. K. Co., let mortings	1886			-	TODO PDG THE	38	32
	-	- }	1	} -			3	8
							\$7,816,747 91	
	Less int, secreed on bonds held in the treasury of the sompany .	*******		* * * * * * * * * * * * * * * * * * * *	:	** *** ****		
	Total		-	\$138,580,000 00			\$7,611,928 18	\$7,675,615 26

Bonds thus designated are convertible into preferred at at any time within ten days after a dividend becomes payable on said preferred at a solution becomes the angular designated are convertible into preferred at any time within little days after a dividend becomes payable on said preferred stock.

Bonds thus designated are convertible into common after any time within sixty days after any dividend becomes payable on the stock of the company.

The authorized issue of these bonds is \$5,000,000 of which but \$2,000,000 have been sold.

Bonds thus designated are payable, principal and interest, in gold, at the office of the company, in New York.

Bonds thus designated are payable, principal and interest, in gold, in Lendon 9-0-0

90

		6,096,008
RBCAPITULATIO	ON.	
		29 590 000
Total funded debt		6.096.008
Total debt liabilities		
Amount of debt liabilities per mile of road, 6,150.75 miles. Fotal amount of stock and debt. stock and debt per mile of road, 6,150.75 miles		1.893.161
Stock and debt per mile of road, 6,150.75 miles		84,449
GENERAL BALANCE SI	HEET.—Dr.	
Construction and equipment account	\$21	12,453,124
Other investments (specifying same): Stocks owned	8074 OOF 40	
Bonds owned	213.850.00	
Real estate	13,270 70	
	•	901,216
Cash items:	es ass sor os	
Cash Bills receivable. Due from agents and conductors. Due from U. S. government.	2,250,000 00	
Due from agents and conductors	255,095 01	
Due from U. S. government		e 400 940 4
Other assets:	<del></del>	6,499,242
Materials and supplies	\$2,044,827 76	•
Sinking funds, etc.	1,037,049 80	
		4 001 090 4
Bonds in treasury	\$4,478,000.00	4,091,089
Bonds in treasury Stock in treasury	4,770 00	
	<del></del>	4,482,770
Total	\$22	28,427,391
GENERAL BALANCE SI	UPPTC_	
Capital stock	••••••••••••••••••••••••••••••••••••••	18,813,101 (
Funded debt Sinking funds	\$844,724 89	~,000,000
Renewal fund. Bolling stock replacement fund	487,154 88	
Solling stock replacement fund	401,183 00	1,733,062
Unfunded debt:		1,100,002
Interest unpaid. Dividends unpaid. Vouchers and accounts	\$3,646,878 50	
Dividends unpaid	52,108 32	
voucuers and accounts	1,342,401 13	
Other liabilities (list as follows):		
Due sundry companies and individuals	1,055,060 69	
		8,705,159
Profit and loss or income accounts		
Profit and loss or income accounts	894	28,427,391
Profit and loss or income accounts		
Total	=	
COST OF ROAD AND EC	= QUIPMENT.	
COST OF ROAD AND Ed	= QUIPMENT. ad and branches built by company	
COST OF ROAD AND EC	= QUIPMENT. ad and branches built by company	

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

MAIN LINE AND BRANCHES.	
Extensions and new sidings.	\$35,932 75 178,788 52 38,155 82 10,845 89 6,07 2 62
Second track New buildings	33.155 82
New fences Machinery and tools	10,845 89
Machinery and tools	6,07 8 62 502,036 51
Keal estate	. 8 <b>.557 95</b>
Bridges	10,802 87 277,482 86
Discounts	. 83,320 00
Miscellaneous	226 00
Total charges	
Total charges to property account as above Property sold and credited Net addition to property account	1,147,171 29 27,749 69 1,119,421 60
Net addition to property account	27,749 69 1 110 421 60
ANALYSIS OF EABNINGS.—IN STATE OF MICHIGAN.	
PASSENGER RARNINGS.  Mair line and branches:	
Total passenger fares \$46.581.55	3
Express and baggage 13,445 95 Maile 11,810 34	
Mails 11,810 34 Other sources 306 45	}
Matal	#70 004 BE
Total passenger department earnings	\$72,096 25
Per train mile, 67,450 miles       \$1 06.86         Per mile of road, 152 08 miles       474 07	)
FREIGHT BARNINGS.	
Main line and hranches:	_
Total traffic \$166,645 47	
Total freight department earnings	166,645 47
Per train mile, 150,272 miles	)
Per train mile, 150,272 miles       \$1 10.90         Per mile of road, 152.08 miles       1,095 78	
ANALYSIS OF EARNINGS.—ENTIRE LINES.	
PASSENGER EARNINGS.	
Main line and branches:	ı
Local fares	
Total passenger fares \$5,932,0.9 16	•
Express and baggage 859,198 98	í
Express and baggage       859,198 96         Mails       1,188,797 00         Other sources       380,806 45	,
	•
Total passenger department earnings	
Per train mile, 8,154,051 miles       \$1 02.66         Per mile of road, 6,150.75       1,360 96	i
rer mile of road, 0,100.10	
FREIGHT BARNINGS.	
Main line and branches:	i
Local traffic \$18,658,835 74 Through traffic 4,092,566 43	
Total traffic \$22,751,402 17	•
<u></u>	
Total freight department earnings	22,751,402 17
Per train mile, 13,926,997       \$1 63.36         Per mile of road, 6,150.75       3,698 96	
Total transportation earnings, entire line	\$81,122,303 76
Transportation earnings per mile of road, 6,150.75 miles \$5,039 92	
Transportation earnings per train mile, 22,081,048 miles 1 40.95	ı

onicito, miswitches a ci. In	.011 141111	200111 00	
Miscellaneous receipts from operating account, other than for to as follows:	-	•	
Elevators From telegraph companies From rents not otherwise provided for From other sources, stock yards		\$47,222 79 81,291 16 111,479 51 40,092 45	
Total			\$230,085 91
<b>,</b>			
DISTRIBUTION OF MISCELLANEOUS BARNINGS BETWEEN MAIN LI	NE AND LEASI	ED OR PROPRIE	TARY BOADS.
	Taxable.	Not taxable.	Total, Michigan.
Freight earnings Passenger earnings Mails Express	\$119,865 00 38,778 40 9,589 38 8,526 60	\$46,780 47 7,758 13 2,220 96 3,830 76	\$166,645 47 46,531 58 11,810 34 12,357 86
News	224 40	819 02	224 40
Extra baggage	769 57 81 46 124 00	2 57	1,088 59 84 08 124 00
Totals	\$177,958 81	\$60,906 91	\$288,865 72
Total earnings from operation of road			tul 959 990 #7
			M1,002,009 01
Total earnings per mile of road, 6,150.75 miles. Total earnings per train mile, 22,031,018 miles. Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan, 105.03 mil Income other than from earnings.		\$5,097 33 1 41.99 177,938 81 1.694 36	
Income other than from earnings	•••••••		302,577 67
Total income from all sources			31,654,967 84
Proportion of income for Michigan (proportional)			791,374 18
ANALYSIS OF EXPENS	PQ		
MAINTENANCE OF WAY AND STE			
			\$1,811,812 85
Repairs of roadway Renewals of rails Renewals of ties			667,283 04 886,378 62
Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle Repairs and renewals of buildings and fixtures.	guards		713,663 28 56,428 47
Repairs and renewals of buildings and fixtures			269,169 45
Total			<b>84,854,735 66</b>
MAINTENANCE OF EQUIPME			
			81,111,363 69
Repairs and renewals of locomotives.  Repairs and renewals of passenger cars Bepairs and renewals of freight cars.  Bepairs and renewals of shop machinery and tools.		}	1,522,840 71 73,504 24
Total			
CONDUCTING TRANSPORTAT	ION.		
Engine and roundhouse men			\$1,860,084 17 1,918,544 04
Train service			110,875 18 1,565,825 41 441,852 55 2,664,556 50
Station service Switching charges—Balance. Car mileage—Balance Loss and damage. Injuries to persons.		······	332,034 04 217,656 49 70,698 68
Loss and damage			70,698 68 141,415 94
Advertising Outside agencies		}	159,878 88
Advertising Outside agencies Stock yards and elevators. Other expenses.			35,395 71 138,065 70
Total			89,656,403 24

# GENERAL EXPENSES.

Balaries of clerks and attendants	<b>\$667</b>	,051	
Lew expenses. Other expenses.	188 258	,984	28
Total	\$2,296	,239	84
RECAPITULATION OF EXPENSES.			
Renewal account Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes	2,707 9,656	,706 ,405	64 24
Total operating expenses and taxes			
Operating expenses and taxes per mile of road, 6,150.75 miles.  Operating expenses and taxes per train mile run, for trains earning revenue, 22,061,048 miles.  Proportion of operating expenses and taxes for Michigan, estimated		4 67	1
Total proportion of expenses for Michigan, estimated.	\$191,92	1 94	_
Percentage of expenses and taxes to earnings 62.08%  Not earnings per mile of road, 6,150.75 miles.  Not earnings per train mile, 22,031,048 miles.	1	, 9 <b>82</b> 58	66 84

# DESCRIPTION OF ROAD.

MELES OF BOAD

Total.	\$6885 \$6885	# 12 0 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	252252 882252	78 35b 2789999	5.41% F 28.8 8左8.8 产者	25.000 27.77.000 26.000 27.77.000	*
Michigan.							
Missouri.	0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		52.091			* 1	
South Dakota.							
North Dakota					+ 1 + B B 1 + F F F F F F F F F F F F F F F F F F		4
Minnesota.		0 P 1 6 1 7 6 7 8 1 8 8 1 0 1 1 8 1 0 1 1 8 1 0 1 1 8 1 0 1 1 8 1 0 1 1 8 1 0 1				1 0 1 0 P 4 1 1 0 P 4 1 1 0 P 4 1 1 0 P 4 1 1 P 4 1 P	
Iowa.		849.18 10.05 158.87 24.41	20.55 20.52 20.52		+ 1		
Wieconsin.	8		8.9	2 328 2 2 2 2 2	202228 2522222	25.22 25.22 26.23	4-48311 198884
Ibinoie	45.00 2.00 8.30 8.30 8.30 8.30 8.30 8.30	89	50 17 17 18	¥	10.1		
To	Milwaukee Libertyville Liewellyn Park Racific Junction Savanna	Dunaing Council Bluffs Clinton Jackson Junction	Fatley Ottumwa Coburg Eittredge Port Byron Janetion	Rockford Moregor  North McGregor  Merrill Park Prairie du Sac Richland Center	Beloit. New Glarus Mineral Point. Platteville La Crosse Madison.	East Madison Necedah Viroqua Oralaska Star Lake Portage City	North Milwankee Rock Fond du Lac Berlin Markosan
	Milwau Liberty Llewell Pacific, Savann	Dunaing Council Clinton Jackson Hurstvii	Fatley Ottoms Coburg Elittredi Port By Eagle	RX NATA S	몽종골라다	발동 문유활명	以及以及其

MILES OF ROAD.—Concluded.

From	Ţ.	Illinoit.	Wieconein	Iowa.	Linnesota	North Dakota.	South Dakota.	Missouri.	Michigan.	Total.
Rush Lake Junction Sabula Junction Bellavus Turkey River Junction Wankon Junction	Winneconne River Junction Cascade West Union		2 1	28.83 28.23 28.27 28.27 28.27	3	A	+ 1			161 161 161 161 161 161 161 161 161 161
Reno North La Crosse. St. Pant Bt. Croix Junctios Wabsaba	Preston Bt. Paul Minneapolis Stillwater Zumbrota		8		57.77 128.42 8.30 24.76 60.21					25.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00
	Chippewa Falla Cedar Falla Chamberlain Elkader Spirit Lake		20.18	291.48 19.20 20.18	28		11.671			2242 2225
Bock Valley. Marion Junction. Calmar Conover. Austin	Eden			8.99 10.00 27.96	180.64		8.2			*82558 *82538
Mendota Northfield La Urescent Wells	St. Paul Cannon Junction Woonsocket Mankato Bristol			1 7 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	25.258 25.258 25.258		97.20			25.28 28.28 26.08 26.08 26.08
South Minneapolis Glencoe Hopkins Ortonville Ortonville Junetion					25.25 25 25 25 25 25 25 25 25 25 25 25 25 2	98	107 001			177.77 18.78 10.69 10.69
Hastings Milbank Andover Mitchell	Benton Junction. Sisseton Karlem Aberdesu Edgeley				28 11	17 20	32.28 12.88 12.88 12.82 12.23			28.22 25.22 128.23 24.83 24.83
Aberdeen Roscoe Manilla Sioux City	Bowdle Orlent Kurska Sjour City Scotland Junction			5.68			2000 M	1 1 0 0 1 0 1 0 0 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0	+ + +	25252 25222 25222

Bootland Tripp Elk Point Necedah	Mitchell Armour Sioux Falls Junction Babcock			84.92	84.92		20.45 57.67 67.81	7.07 0.45 7.81		28.28 26.28 26.28
Babcock Pittaville Junction Dexterville	Pittaville Vesper Lynn Bomadka		9.85.55 2.53.83							008.2 24.38
In city of Fond du Lac North Milwaukee. Hilbert Junction Menasha	Champion Appleton Neenah		20.28 20.35 1.48			1111		57.79	57.79	25.25 20.28 1.38 3.68 3.68
Oconto Junetion  Elis Junetion Wausunkee Channing	Oconto Menominee Northwest Sidnaw Ontonagon		20.12 20.12 30.05 17.05						1.34 47.98 5.90	12212 24223 26353 2635 2635 2635 2635 2635 2635
Totals		317.88	1,647.79	1,553.37	1,120.09	118.21	1,101.08	140.27	152.08	6,150.75

MAIN LINE.		
1	Miles.	Miles.
Length of double track		204.52
BRANCHES.		
Total length of road belonging to this company		6,150.75
Aggregate length in michigan of sidings, spurs, and other tracks not above		
enumerated	48.57	
Aggregate length of tracks in Michigan belonging to this company, computed as a track	ingle	200.65
Gauge of track, 4 feet 81/4 inches.		5,997.00
Gauge of track, 3 feet		158.75
Proprietary or leased roads operated by this company.		
		n Michigan.
Total miles operated by the company	150.75	152.08
Number of bridges and trestles in Michigan.		Aggregate
•	mber. 8	length, feet. 586
Wooden bridges	2	190
Wooden trestles	130	
Total	140	18,806
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? C. & N. W. R. R. at Waubic, Iron Mountain, Amass and Champion. D., S. S. & A. R. R. at Champion, Sidnaw and Republic.		
What railroads cross your road either over or under your grade in this State, and wh	ere?	
Under: C. & N. W. R. R. at Iron Mountain.		
At what crossings are interlocking and derailing switches in operation? D., S. S. & A. at Republic and Sidnaw. C. & N. W. at Waubic.		
What pattern or patterns have you adopted? Union Switch and Signal Co. (Farmer & Saxby.)		
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flat  Number of crossings at which there are electric or automatic signals	rmen	46 5 1
What pattern or patterns in use? Electric bell.		
Number of crossings of highways over or under railroad: under, 2.		
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by act 174, session laws of 1888? Yes.		
How are they treated?  Hart's foot-guard and plank.		•
Stations.		
Number of stations on whole lines		895 24
Employés.		· · · · · ·
Number of persons regularly employed on all roads operated by company, including offi	icials	20,216
Same in Michigan		121
Classify your employés as per following list:		Number.
Baggagemen Brakemen		8 5
Conductors		, i
Engineers Firemen		1
Laborers	•••••	75
Yardmen		75 8 28
Others		

# REPAIRS AND RENEWALS.

# Fencing in Michigan.

How many miles of fencing have you				38
Give the number of miles required to and the counties in which needed:	complete fence bo	th sides of your tra	ck in Michigan,	
Dickinson Marquette Iron Baraga Houghton Ontonagoa  Total miles required				66 29 53 11 87 28
rocat mues required		·	=	524
	Road bed and	track.		
Number of track sections in Michiga Average lengths of sections, miles Average number of men in each sect Number of new ties put in whole line Number of new ties put in track in a Average number of new ties per mile	on gang			20 8 3 2,021,806 46,500 810
	Bridges and ou	ilverts.		
Amount of trestle work replaced with	h earth during the ;	rear (linear feet)		276
Timber culverts replaced during the With iron pipe				Number. 18 12 6
Location.	Kind.	Material.	Month built.	feet in length.
Menominee Menominee Iroa Mountain Republic Republic	Trestle	Iron		138 383 881/4 441/4 441/4
Number of locomotives of more than Number of locomotives of 20 to 30 tor Number of locomotives of 10 to 20 tor	ROLLING 87 30 tone' weight, ex 18' weight, exclusiv 18' weight, exclusiv			Number. 821 18 5
Total				844
Number of passenger cars—12-wheel, Number of passenger cars—8-wheel, Number of express and baggage cars Number of box freight cars—Number of stock cars—Number of stock cars—Number of ore cars—Number of log cars—Number of log cars—Number of conductors' way cars—Other cars as follows:  Wrecking, tool cars, etc.  Parlor cars, 16; sleeping cars, 53; d	ining cars, 8			152 261 287 18,540 2,503 5,384 65 491 75 77 28,554
Number of locomotives equipped wit Number of passenger-train cars equi Number of freight cars equipped wit	h power brakes pped with power br h power brakes	akes	760 768 9,800	

What patterns of power brakes have you in use, and number of locomotives and care with each?
Westinghouse—locomotives, 691; cars, 10,568. Vacuum—locomotives, 6. Steam—locomotives, 68.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use?
M. C. B. type.

How are your passenger cars heated? Steam.

# MILEAGE, TRAFFIC, ETC.

Train mileage.	F	Intire lines. In	Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains		7,904,716 18,178,992 997,340	55,795 115,305 46,622
Total mileage of trains earning revenue	··	22,061,048	217,722
Description to the lines			
Passenger traffic.—Entire lines.	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	178,866 7,152,050	<b>2</b> 001	22200
Total number of passengers carried earning revenue	7,330,916		
Number of passengers carried one mile			
Average amount received from each passenger			\$0.919
Average receipts per mile for through passengers  Average receipts per mile for local passengers			02.855 02.247
Average receipts per passenger per mile for all passengers			02.258
		=	
Passenger traffic.—In State of Michigan—P	roportiona	ı.	
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	4,472 178,801		
Total number of passengers carried earning revenue	183,273	•	
Number of passengers carried one mile.  Average distance carried		6,569,173 85.84	
Average amount received from each passenger.  Average receipts per mile for through passengers  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers			\$0 80.919 02.858 02.247 02.258
Freight traffic.—Entire lines.	<b>m</b>	<b>M</b> (1)	D-4-
Number of tons of through freight carried, earning revenue	Tons. 2,725,525	Miles.	Rate.
Number of tons of local freight carried, earning revenue	9,234,270		
Total tons of freight carried, earning revenue	11,959,795		
Total mileage of through freight Total mileage of local freight		542,859,758 1,755,486,904	
Total freight mileage or tons carried one mile		2,298,846,657	
Average ton haul for through freight Average ton haul for local freight		199.18 190.11	
Average ton haul for all freight.		192.17	
Average amount received for each ton haul  Average receipts ton per mile, for through freight.  Average ton receipts per mile, for local freight.  Average receipts ton per mile, for all freight.			\$1 90.232 00.754 01.006 00.990

# Freight traffic.—In State of Michigan-Proportional.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	68,138 230,857		
Total tons of freight carried, earning revenue	298,995		
Total mileage of through freight		13,571,494 43,887,172	
Total freight mileage or tons carried one mile		199.18	
Average ton haul for all freight		192.17	
Average amount received for each ton haul			\$1 90.282 00.754 01.006 00.990

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

Company's material excluded.	Whole tons.	Per cent.
Total tonnage.	11,959,795	100.00

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

# Company's material excluded.

Commodity.	Freight originating on this road.	Freight re- ceived from connecting	Total freigh	ht tonnage.
100	Whole tons	roads and other carriers Whole tons.	Whole tons.	Per cent.
Products of agriculture:				_
Grain	175	70	245	.0.
FlourOther mill products	21 5	469 28	490   88	.00
Hay	353	20	358	.0.
Tobacco	1		~~~~il	
Tobacco	108	21	129	.00
Products of animals:	404		49.4	
Live stock	424 82		424 32	.0 .0.
Other packing house products	5	230	235	.0
Ponitry, game and fish	78	369	447	.o
Poultry, game and fish Hides and leather	12		12	
Products of mines:	400			
Anthracite coal	182		182	.0
Bituminous coal	1,017 272,270	12,208	1,017 284,478	.1: 48.9
OresStone, sand and other like articles	552	647	1,199	10.3 .2
Salt	13		13	٠
Products of forest:				
Lumber	46,5%	4,849	51,435	8.8
Logs	197,619	33,446	231,065	39.7
Manufactures: Petroleum and other oils	82		82	.0
Iron, pig and bloom		364	364	.ŏ.
Other castings and machinery	70	37	107	.0
Bar and sheet metal	. 1	18	14	
Cement, brick, and lime	152		152	.0
Agricultural implements Wagons, carriages, tools, etc.	12 13		12	
Wines, liquors and beers	567		567	.1
Household goods and furniture	254	21	275	. <b>0</b>
Merchandise	2,969	1,245	4,214	.7
Miscellaneous: Other commodities not mentioned above	1,118	1,981	3,049	.5
Total tonnage.	524,691	55,948	580,639	100.0

#### ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

of such express companies?

The United States Express Company. Does a general express business. Rates are various and governed by the business done and the facilities furnished. Freights taken at the various depots.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
608,400 miles of line—21,042.50 miles of wire. For the construction of the telegraph lines, the Western
Union Telegraph company or the Northwestern Telegraph company in some cases furnished some
material and claim joint ownership. Amount not definitely fixed.

#### TRANSPORTATION COMPANIES.

# Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If reuted by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Pullman's Palace Car Company, Chicago, Illinois; no compensation; railroad company keeps cars in repair.

# Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid? The cars of all transportation companies are allowed to run over the lines of this company, paying regular rates and receiving mileage.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### KILLED.

March 20, J. P. Devaney, switchman, fron Mountain. Fell from top of car.

### INJURED.

May 2, Geo. Runnels, tramp, Republic. Jumped from moving train; arm broken.
June 23, V. Johnson, section man, Park Spur. Lying on track; foot cut off.
Aug. 14, A. Walling, yardmaster, Menominee. Uncoupling cars; finger crushed.
August 28, C. H. Minnis, switchman, Iron Mountain. Coupling cars; finger crushed.
November 18, Nels Larson, section man, Menominee. Rail fell on foot; foot bruised.
December 2, H. Hancock, engineer, Champion. Fell in cab of engine; ankle sprained.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.			Injured.	•
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.
Coupling cara		1			2	
Miscellaneous					8	1
Total		1			5	1

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	õ
Number resulting from lack of caution carelessness, or misconduct	7
Trespassers and tramps killed or injured	1

# CLASSIFICATION OF EMPLOYÉS.

# KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Rngineers	i	1 4	1 5
Total	1	5	6

STATE OF ILLINOIS, Ss. County of Cook,

F.G. Ranney, treasurer, and W. N. D. Winne, general auditor, of the Chicago, Milwaukee & St. Paul Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of Decamber, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed

F. G. RANNEY, Treasurer,

W. N. D. WINNE, General Auditor.

Subscribed and sworn to before me this 15th day of March, A. D. 1897.

W. D. MILLARD, Notary Public.

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# ANNUAL REPORT

OF THE

# CHICAGO, MILWAUKEE & ST. PAUL RAILWAY COMPANY,

[Supplementary.]

For the year ending December 81, 1896.

[Filed March 17, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ROSWELL MILLER, Chicago.
Vice President, FRANK S. BOND, New York.
Secretary, P. M. MYERS, Milwaukes.
General Auditor, W. N. D. WINNE, Chicago.
Treasurer, F. G. BANNEY, Chicago.
Second Vice President and General Manager, A. J. EABLING, Chicago.
General Superintendent, W. G. COLLINS, Chicago.
Assistant General Superintendent in Michigan, W. J. UNDERWOOD, Milwaukes.
Division Superintendent in Michigan, R. B. MINTURN, Green Bay.
Chief Engineer, D. W. WHITTEMORE, Chicago.
Superintendent of Telegraph, U. J. FRY, Milwaukes.
General Passenger and Ticket Agent, G. H. HEAFFORD, Chicago.
General Freight Agent, J. H. HILAND, Chicago.
General Counsel, GEO. R. PECK, Chicago.

### DIRECTORS.

PHILIP D. ARMOUR, Chicago
AUGUST BRIMONT, New York.
FRANK S. BOND, New York.
CHARLES H. COSTER, New York.
CHARLES D. DICKEY, JR., New York.
PETER GEDDES, New York.
FREDERICK LATTON, Milwaukee,
JOSEPH MILLBANK, New York.
ROSWELL MILLER, Chicago.
J. M. MCKINLAY, New York.
WM. ROCKEFELLER, New York.
SAMUEL SPENCER, New York.
A. VANSANTVOORD, New York.
Terms expire September, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 5, 1863. Number of stockholders at date of last election: 4,766. Number of stockholders in Michigan at same date: 14. Amount of full paid stock held in Michigan at same date: \$56,100.00. Date of annual meeting of stockholders: September. Fiscal year of company ends June 30. General offices of the company are located at Chicago, Ill.

# ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.

PASSENGER EARNINGS.		
Main line and branches: Total passenger fares	\$7,758 13	
Express and baggage	4,149 78	
Mails	2,220 96	
Other sources	2 57	
Total passenger department earnings		B14 100 44
Per train mile	\$1 38.03	<b>5</b> 14,126 44
Per train mile. Per mile of road.	300 24	
FREIGHT MARNINGS.		
Main line and branches:		•
Total freight department earnings.		46,780 47
Per train mile. Per mile of road.	1 18.07	•
Per mile of road	9 94.27	
P-	oportion for	
**	Michigan.	
Freight earnings	848 790 47	
Passenger earnings	7,758 18 2,220 96 8,830 76	
Mail earnings	2,220 96	
Express earnings	3,830 76	
Extra baggage	21A 05	
Sleeping car	2 57	
Total earnings from operation of road		\$60,906 91
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Channing to Sidnaw, January 1, 1898.		
MAIN LINE.		Miles.
In Michigan, from Channing to Sidnaw		47.05
Gauge of track, 4 feet 8% inches.		
If north of parallel 44 of latitude: Yes.		
1 0g:		
Give date road commenced to be built: February, 1892.		
Give date road completed:		
December, 1892.		
Give date road commenced to be operated: January 1, 1893.		
Where built from and to:		
Channing to Sidnaw.		
Give exact number of miles: 47.05.		
STATE OF ILLINOIS, \ 88.		

F. G. Banney, Treasurer, and W. N. D. Winne, General Auditor, of the Chicago, Milwaukee & St. Paul Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1898, to the best of their knowledge and belief.

[L. S. OF E. E.]

Signed,

BANNEY Treasurer.

Signed,
F. G. RANNEY, Treasurer.
W. N. D. WINNE, General Auditor.

Subscribed and sworn to before me this 15th day of March, A. D. 1897.

W. D. MILLARD, Notary Public.

# ANNUAL REPORT

OF THE

# CHICAGO & NORTHWESTERN RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed March 1, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, MARVIN HUGHITT, Chicago, Ill.
Vice President, M. L. SYKES, New York, N. Y.
Secretary, M. L. SYKES, New York, N. Y.
Auditor, J. B. REDFIELD, Chicago, Ill.
Treasurer, M. L. SYKES, New York, N. Y.
General Manager, J. M. WHITMAN, Chicago, Ill.
General Superintendent, S. SANBORN, Chicago, Ill.
Assistant General Superintendent, W. A. GARDNER, Chicago, Ill.
Division Superintendents, { W. B. LINSLEY, Escanaba, Mich.
Lines in Michigan, { CHARLES H. HARTLEY, Kaukauna, Wis.
Chief Engineer, JOHN E. BLUNT, Chicago, Ill.
Superintendent of Telegraph, GEORGE H. THAYER, Chicago, Ill.
Second Vice President, M. M. KIRKMAN, Chicago, Ill.
General Fassenger and Ticket Agent, W. B. KNISKERN, Chicago, Ill.
General Freight Agent, M. HUGHITT, Jr., Chicago, Ill.
General Counsel, LLOYD W. BOWERS, Chicago, Ill.

# DIRECTORS.

DAVID P. KIMBALL, Boston, Mass. CHAUNCEY M. DEPEW, New York, N. Y. SAMUEL F. BARGER, New York, N. Y. ALBERT KEEP, Chlcago, Ill. M. L. SYKES, New York, N. Y. JAMES C. FARGO, New York, N. Y. Terms expire June, 1897. ZENAS CRANE, Dalton, Mass. OLIVER AMES, Boston, Mass. JAMES STILLMAN, New York, N. Y. MARVIN HUGHITT, Chicago, Ill. N. K. FAIRBANK, Chicago, Ill. Terms expire June, 1898. BYRON L. SMITH, Chicago, Ill. CYRUS H. McCormick, Chicago, Ill. F. W. VANDERBILT, New York, N. Y. W. K. VANDERBILT, New York, N. Y. H. McK. Twombly, New York, N. Y. JOHN I. BLAIR, Blairstown, N. J. Terms expire June, 1899.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 7, 1859.
Number of stockholders at date of last election: 5,247.
Number of stockholders in Michigan at same date: \$167,500.
Amount of full paid stock held in Michigan at same date: \$167,500.
Date of annual meeting of stockholders: First Thursday in June.
Fiscal year of company ends: May 31.
General offices of the company are located at Chicago, Ill.

GENERAL EXHIBIT. Dabit.	Credit.
Total earnings from operation	\$82,177,152 81
Net income	\$10,950,228 01
Interest on funded and unfunded debt.       \$6,890,319 49         Sinking funds       221,412 50         Bentals of buildings, tracks, etc.       13,218 88	
Balance applicable to dividends	4,825,282 14
Balance for the year.  Balance (profit and loss) last year.  Items not included in above, as follows:  Less written off May 31, 1896, transferred to "cost of road" on account of net income expended for construction purposes in previous years and not capitalized 6,492,313,25	\$807,524 64 9,584,079 25
Balance forward to next year	\$3,899,290 64
ANALYSIS OF CAPITAL STOCK.	
Par value of shares \$100 00  Number of shares issued 663,838  Common stock outstanding (including stock of proprietary railroads 22,353,454 56	
Total amount outstanding including stock of proprietary railroads, as per books of the company	\$66,383,820 53
Paid in per mile of road owned by C. & N. W. Ry. and proprietary Co.'s, 4,970.76 miles	\$13,354 86

# ANALYSIS OF DEBT ACCOUNTS.

# . FUNDED DEBT.

N of hord	t	<b>7</b> 0	Interest.		
Name of bond.	Issued.	Due.	Rate.	Payable.	Amount.
Maple River R. R. Chic. & Mil. R'y, 1st Peninsula R. R. Lowa Midland B'y Escanaba & L. Sup. R'y	July 1, 1887. July 1, 1863 July 1, 1868. Aug. 1, 1870. July 1, 1881.	July 1, 1897. July 1, 1898. Sept. 1, 1898 Oct. 1, 1900. July 1, 1901.	7x 7x 7x 8x 6x	Jan. 1 and July 1 Jan. 1 and July 1 Mar. 1 and Sept. 1 Apr. 1 and Oct. 1 Jan. 1 and July 1	\$402,500 1,700,000 96,000 1,850,000 720,000
Iowa Division, 1st mort General Consol. gold Milw. & Madison B'y Chicago & Tomah. Chic. Mil. & No. West'n R'y	Nov. 80, 1872 Sept. 1, 1880.	Apr. 1, 1902 Dec. 1, 1902 Sept. 1, 1905 Nov. 1, 1905 Nov. 1, 1905	41/4× 7× 6× 6× 6×	Apr. 1 and Oct. 1 June 1 and Dec. 1 Mar. 1 and Sept. 1 May 1 and Nov. 1 May 1 and Nov. 1	1,411,000 12,396,000 1,600,000 1,528,000 750,000
Menominee Biver B. B., 1st	Feb. 1, 1882. Feb. 1, 1887.	July 1, 1906 July 1, 1906. Feb. 1, 1907. Feb. 1, 1907. Sept. 1, 1907.	7x 7x 7x 5x 6x	Jan. 1 and July 1 Jan. 1 and July 1 Feb. 1 and Aug. 1 Feb. 1 and Aug. 1 Mar. 1 and Sept. 1	400,000 160,000 600,000 436,000 1,065,000
Dakota Cent. R'y (So. Ka. Div.) W. & St. P. B. R., 2d Book. & No. Minn. R'y Plainview R. R. Minn. Valley R'y	Nov. 1, 1882. Nov. 1, 1867 Sept. 1, 1878 Sept. 1, 1878. Oct. 1, 1878.	Nov. 1, 1907. Nov. 1, 1907. Sept. 1, 1908. Sept. 1, 1908. Oct. 1, 1908.	6% 7% 7% 7%	May 1 and Nov. 1 May 1 and Nov. 1 Mar. 1 and Sept 1 Mar. 1 and Sept. 1 Apr. 1 and Oct. 1	2,000,000 1,392,000 200,000 100,000 150,000
Ott., C. F. & St. P. R'y	June 1, 1884	Mar. 1, 1909 July 1, 1909. Nov. 1, 1909. Mar. 1, 1910. Apr. 1, 1911.	5x 7x 5x 5x 7x	Mar. 1 and Sept. 1 June 1 and Dec. 1 May 1 and Nov. 1 Mar. 1 and Sept. 1 Apr. 1, and Oct. 1	1,600,000 769,000 6,000,000 1,500,000 8,150,000
M. L. S. & W. Ry., income bonds	May 2, 1881. June 1, 1871. Jan. 16, 1865 May 1, 1866. Dec. 1, 1871.	May 1, 1911. June 1, 1911. Feb. 1, 1915. May 1, 1916. Dec. 1, 1916.	8x 7x 7x 7x 7x	May 1 and Nov. 1 June 1 and Dec. 1 Feb. 1 and May 1 } Aug. 1 and Nov. 1 } May 1 and Nov. 1 June 1 and Dec. 1	500,000 2,697,000 12,804,000 2,882,000 4,241,000
Northwestern Union R'y Debentures of 1921. M., L. S. & W. R'y, Consol., 1st M., L. S. & W. R'y, Marshfield Ext M., L. S. & W. R'y, Mich. Div., 1st M., L. S. & W. R'y, Mich. Div., 1st	June 1, 1872 Feb. 28, 1891	June 1, 1917. Apr. 15, 1921 May 1, 1921. Oct. 1, 1922. July 1, 1924. Mar. 1, 1925.	7%	Mar. 1 and Sept. 1 Apr. 15 and Oct. 15 May 1 and Nov. 1 Apr. 1 and Oct. 1 Jan. 1 and July 1 Mar. 1 and Sept. 1	3,500,000 10,000,000 5,000,000 400,000 1,281,000 1,000,000
C. & N. W. R'y, Ext. of 1886.  M., L. S. & W. R'y, Ext. & Imp. M't'g Consol., S. F. of 1879. Consol., S. F. of 1879. S. F. Debentures of 1988.  Wis. Northern R'y, ist mort.	Oct. 1, 1879 Oct. 1, 1879 May 1, 1883	Aug. 15, 1928 Feb. 1, 1929 Oct. 1, 1929 Oct. 1, 1929 May 1, 1933 July 15, 1931	4x 5x 6x 5x 5x 4x	Feb. 15 and Aug. 15_ Feb. 1 and Aug. 1 Apr. 1 and Oct. 1 Apr. 1 and Oct. 1 May 1 and Nov. 1 Jan. 15 and July 15.	18,632,000 4,188,000 6,187,000 7,381,000 9,800,000 300,000
Total \$181,808,5					\$181,808,500

Payable at New York.

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For current balances	Will probably be paid in cash	\$5,386,470 22

### RECAPITULATION.

RECAPITULATION.	
Total funded debt	\$181,808,500 00
Total debt liabilities	
Amount of debt liabilities per mile of road, funded, 4,970.76 miles, \$26,516.77; unfunded, 5,030.78 miles, \$1,070.70.  Total amount of stock and debt.  Stock and debt per mile of road, stock and funded debt, 4,970.76 miles, \$39,871.63; unfunded debt, 5,080.78 miles, \$1,070.70.	27,587 47 208,578,790 75
Stock and debt per mile of road, stock and funded debt, 4,970.76 miles, \$39,871.63;	200,010,190 10
unfunded debt, 5,080.78 miles, \$1,070.70	40,942 88
GENERAL BALANCE SHEET.—Dr.	
Construction account  Equipment account Other investments (specifying same): Bonds of other companies owned. Company's bonds on hand Land grant investments Cost of stock of Mo Val & R. R. & Bri Co. 2, 2000	\$174,808,916 91
Other investments (specifying same):	
Company's bonds on hand	•
Company's bonds on hand	
Cost of stock of Sioux City Bridge Co. 2,400 00	
Cost of stock of E. R. & M. V. R. R. 1.981.500 00	
Cost of stock of C., St. Paul, M. & D. R'y	
Common and preferred stock in hands of treasurer	
for C. & N. W. R'y, 4 per cent ext. bonds of 1886	00 000 047 48
	36,393,947 45
Cash items:	
Cash       \$2,576,132 89         Bills receivable       277,497 07         Due from agents       1,035,847 25	
Due from agents 1,035,847 25	8,889,477 21
•	0,000,211 21
Other assets: Materials and ennotice 22,083,934,68	
Sinking funds, trustees of 7,982,387 87	
Other assets   \$2,068,954 68	10,742,840 78
Total	\$225,885,182 85
4000	4220,000,102 00
GENERAL BALANCE SHEET.—Cr.	
Capital stock Funded debt Purchase account (bonds on hand from purchase of M., L. S. & W. Ry.) Sinking funds Installments paid Accretions 1,262,649 17	\$66,383,820 53 181,806,500 00 8,407,000 00 7,932,887 87
Purchase account (bonds on hand from purchase of M., L. S. & W. Ry.).	8,407,000 00
Sinking funds Installments paid  88,860 799 70	7,932,887 87
Accretions 1,282,649 17	
Infunded debt:	
Interest unpaid         1,950,736 35           Dividends unpaid         1,376,984 75           Vouchers and accounts         2,768,799 12	
Vouchers and accounts 2,058,799 12	5,386,470 22
Other liabilities (list as follows):	
Land income account Income account, Consolidation Coal Co.	2,005,174 01
Profit and loss or income accounts	2,005,174 01 12,589 08 8,899,290 64
Total	<b>\$225,885,182 85</b>
COST OF BOAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built and accourse by co	mpany includ-
Total cost for construction and equipment of road and branches built and acquired by coning cost of proprietary lines embraced in this report.	
Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 4,970.76 miles  Proportion of cost for Michigan  Miles owned by C. & N. W. By. and proprietary lines—whole line 4,970.76  Miles owned by C. & N. W. By. and proprietary lines—in Michigan 521.19	\$174,808,916 91
Proportion of cost for Michigan	85,167 44 18,828,919 40
Miles owned by C. & N. W. By, and proprietary lines—whole line	
emon owner of Orm 14. 14. 164, and brokenski mine. In wronden	

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

### MAIN LINE.

Lands, extensions and new sidings Second track New buildings and bridges New fences and road crossings Machinery and tools New cars		932, 205, 5,	584 838 363 067	18 83 76 22
Total		\$2,622,	634	49
Total charges to property account as above	of "cost of			
road"	•••••	11,788,	329 495	88 89
Management in brokery account.		====	-	=
Analysis of Earnings.—In State of Michiga	N.			
PASSENGEE EARNINGS.  Main line and branches:				
Local fares Through fares Total passenger fares Express Mails	\$212,740 84 908 27 218,044 11 46,138 68 45,106 56	`		
Total passenger department earnings		\$304,	291	<b>3</b> 5
Per train mile	\$0.71.06 588 84			
FREIGHT BARNINGS.				
Main line and branches: Local traffic Through traffic Total traffic	1.651 47			
Total freight department earnings.		1,778,	113	15
Per train mile	\$1 47.60 8.411 64			

ANALYSIS OF EARNINGS.—ENTIRE LINES.

Pabbinger harmyes.

12	Local fare.	Through fares.	Total pateenger fares.	Express and baggage.	Mails.	Total.	Per train mile.	Per mile of road.
Main line — branches		1	\$6,746,749 74	\$584,218 64	\$741,524 88	\$8,022,498 26	***************************************	
Leased or proprietary roads: W. & St. P. B. R. Dakota Central R'v			384,946	18,408 00	51,282,77	404,587 29		4
Princeton & Western R.T. St. Paul Eastern Grand Trunk R'y	F		18,050,81	2,891 76	8,511 64	24,258 58		
Total passenger department earnings	\$6,704,845 72	91 699'0928	\$1,255,011 88	\$568,277.76	\$881,769 57	\$8,705,082 21	40 87.44	\$1,730.86
>		FREGUT	PRESCHT BARNINGS.					
			Local traffic.	Through traffic.	Total traffic.	Total	Per train mile.	Per mile of road.
Main line and branched					421,005,463 52	\$21,065,468 \$2		
Leaned or proprietary road: W. & St. P. B. B. Dakota Central R'y. Princelon & Western R'y. St. Pani Rastern Grand Trunk R'y.			0 1 0 0 0 4 0 0 0 4 0 0 0 4 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0		1,584,454 16 468,071 43 4,512 85 19,994 02	1,564,454 16 4466,071 42 4,513 85 19,904 08		
Total freight department camings	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		021,968,270 29	\$1,154,226 74	\$28,122,496 97	\$22,122,496.97	. \$1 41.43	\$4,596.21

Total transportation earnings, entire line		<b>\$31 897 570 18</b>
- · · · · · · · · · · · · · · · · · · ·		401,021,010 20
Transportation earnings per mile of road Transportation earnings per train mile	\$6,326 57 1 20.99	
Miscellaneous receipts from operating account, other than for transporta- tion, as follows:  From rents of tracks, yards and terminals.	\$29,023 52	
From rents not otherwise provided for From other sources.	75,788 78 244,816 38	
Total		<b>\$349</b> ,573 <b>6</b> 3
Distribution of miscellaneous earnings between main line and leased or pro-	prietary road	la:
0	Total cellaneous.	Actual
Company. mis	\$326,837 78	for Michigan. \$11.290 10
C. & N. W. R'y Co. W. & St. P. R. R. Co. Dakota Central R'y Princeton & Western R'y St. Paul Eastern Grand Trunk R'y	13,114 19 9,174 56 56 40	<b>411,25</b> 0 10
St. Paul Eastern Grand Trunk R'y	390 70	
Total miscellaneous earnings		\$11,290 10
Total earnings from operation of road.  Total earnings per mile of road (5,090.78 miles)  Total earnings per train mile Amount of taxable earnings for Michigan, being actual earnings in Michigan  Total taxable earnings per mile of road in Michigan, 521.19 miles	\$6,896 06 1 22 28	<b>\$32</b> ,177,152 81
Amount of taxable earnings for Michigan, being actual earnings in Michigan.  Total taxable earnings per mile of road in Michigan, 521.19 miles	4,017 14	2,098,694 60
Receipts from investments included (as credits) in interest on funded and unfunded debt:		
Total income from all sources		<b>\$32,177,15</b> 2 81
Actual income for Michigan		2,093,694 60
analysis of expenses.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway		\$2,068,449 87
Renewals of rails		370,805 06
Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards  Repairs and renewals of buildings and fixtures.  Repairs and renewals of dooks and wharves.  Repairs and renewals of telegraph		\$2,068,449 87 370,805 06 524,887 56 511,805 37 174,439 00 438,485 73 178,687 20 32,432 28 14,890 65
Total		\$4,309,882 72
MAINTENANOM OF EQUIPMENT.		
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of reight cars. Repairs and renewals of work cars. Repairs and renewals of marine equipment. Repairs and renewals of ahop machinery and tools. Stationery and printing. Other expenses  Total.		8243,285 27 1,032,382 79 331,287 11 1,997,850 01 34,083 36 2,349 51 89,577 58 21,196 49 141,578 10

### CONDUCTING TRANSPORTATION.

Superintendence		\$151,489 67 2,490,849 10
Superintendence. Engine and roundhouse men.		2,490,849 10
Fuel for locomotives		2,005,633 88
water supply for locomotives		187,120 36 72,344 81
Water supply for locomotives Oil, tailow and waste for locomotives Other supplies for locomotives		72,344 81 82,349 42
Train service.		1 905 069 91
Train services and avenues		1,865,062 21 278,784 43
Train supplies and expenses Switchmen, flagmen and watchmen		866,195 92
Telegraph expanses		405,524 87
Telegraph expenses		1,543,848 67
Station supplies		181.926 80
Switching charges—balance		140,849 21
Car mileage—balance Loss and damage		309,021 59
Loss and damage		116,479 80
Injuries to persons		826,882 18
Clearing wrecks Operating marine equipment		12,649 76
Operating marine equipment		8,447 14
Advertising		62,992 64
Outside agencies Commissions		811,821 46 61,255 69
Stockwards and alayetore		76 49
Stockyards and elevators  Rents for tracks, yards and terminals		
Rent of buildings and other property.		<b>57,900 28</b>
Stationery and printing		118,157 55
Total		\$11,496,658 88
General Expenses.		
Salaries of general officers		\$145,724 82
Salaries of general officers Salaries of clerks and attendants		\$145,724 82 296,558 88
Salaries of clerks and attendants.  General office expenses and supplies		908 KKQ QQ
Salaries of clerks and attendants. General office expenses and supplies		296,558 88 84,105 28 2,740 87
Salaries of clerks and attendants. General office expenses and supplies		296,558 88 84,105 28 2,740 87 141,888 95
Salaries of clerks and attendants. General office expenses and supplies		296,553 88 84,105 28 2,740 87 141,888 95
Salaries of clerks and attendants. General office expenses and supplies		296,558 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56
Salaries of clerks and attendants.  General office expenses and supplies		296,553 88 84,105 28 2,740 87 141,888 95
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses.  Stationery and printing (general offices)  Other expenses.  Taxes.		296,553 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants. General office expenses and supplies		296,553 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses.  Stationery and printing (general offices)  Other expenses.  Taxes.		296,553 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses.  Stationery and printing (general offices)  Other expenses.  Taxes.		296,553 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance.  Law expenses.  Stationery and printing (general offices)  Other expenses.  Taxes.		296,553 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56 1,142,422 89
Salaries of cierks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses. Taxes.  Total		296,553 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56 1,142,422 89
Salaries of cierks and attendants. General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses. Taxes.  Total		296,553 88 84,105 28 2,740 87 141,388 95 11,841 28 1,805 56 1,142,422 89
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices). Other expenses. Taxes.  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses.	296,553 88 84,105 28 2,740 87 141,388 95 11,841 23 1,805 56 1,142,422 89
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices).  Other expenses Taxes  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures	Per cent of	296,553 88 84,105 28 2,740 87 141,385 95 11,841 23 1,805 56 1,142,422 39 \$1,828,532 98 \$4,309,882 72
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation	Per cent of expenses. 20.30 16.93 54.16	296,553 88 84,105 28 2,740 87 141,383 95 11,841 23 1,805 56 1,142,422 39 \$1,828,532 98  \$4,300,882 72 3,683,850 22
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices).  Other expenses Taxes  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures	Per cent of expenses. 20.30 16.93 54.16	296,553 88 84,105 28 2,740 87 141,385 95 11,841 23 1,805 56 1,142,422 39 \$1,828,532 98 \$4,309,882 72
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices). Other expenses. Taxes  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes	Per cent of expenses. 20.30 16.93 54.16 8.61	296,553 88 84,105 28 2,740 87 141,388 95 11,841 23 1,805 56 1,142,422 89
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices). Other expenses. Taxes  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes	Per cent of expenses. 20.30 16.93 54.16 8.61	296,553 88 84,105 28 2,740 87 141,385 95 11,341 23 1,805 56 1,142,422 39
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	Per cent of expenses. 20.80 16.93 54.16 8.61	296,553 88 84,105 28 2,740 87 141,388 95 11,841 23 1,805 56 1,142,422 89 \$1,828,532 98 \$4,309,882 72 3,583,850 22 11,496,688 88 1,826,532 98 \$21,226,924 80
Salaries of clerks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	Per cent of expenses. 20.80 16.93 54.16 8.61	296,553 88 84,105 28 2,740 87 141,388 95 11,841 23 1,805 56 1,142,422 89
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revent	Per cent of expenses. 20.30 16.93 54.16 8.61 100.00	296,553 88 84,105 28 2,740 87 141,383 95 11,841 23 1,805 56 1,142,422 39 \$1,828,532 98 \$1,828,532 98 \$4,309,882 72 3,563,850 22 11,496,658 88 1,826,532 98 \$21,226,924 80 \$4,219 41
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revent	Per cent of expenses. 20.30 16.93 54.16 8.61 100.00	296,553 88 84,105 28 2,740 87 141,383 95 11,841 23 1,805 56 1,142,422 39 \$1,828,532 98 \$1,828,532 98 \$4,309,882 72 3,563,850 22 11,496,658 88 1,826,532 98 \$21,226,924 80 \$4,219 41
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes  Total  BECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revent miles.	Per cent of expenses. 20.30 16.93 54.16 8.61 100.00	\$4,300,882 72 3,583,850 28 4,300,882 72 3,683,850 22 11,42,422 89 \$1,826,532 98 \$4,300,882 72 3,683,850 22 11,496,658 88 1,826,532 98 \$21,226,924 80 \$4,219 41 0 80.697 ,199,114 44
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revent miles.  Total proportion of expenses and taxes for Michigan. Percentage of expenses and taxes are miles.	Per cent of expenses. 20.30 16.93 54.16 8.61 100.00	296,553 88 84,105 28 2,740 87 141,383 95 11,841 23 1,805 56 1,142,422 89
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revent miles. Total proportion of expenses and taxes for Michigan. Percentage of expenses and taxes to earnings. Not earnings per mile of road.	Per cent of expenses. 20.30 16.93 54.16 8.61 100.00	\$4,309,882 72 3,563,830 22 72 3,563,830 22 71,496,588 1,826,532 98 \$21,226,522 99 \$4,209,882 72 3,683,830 22 1,496,585 88 1,826,532 98 \$21,226,924 80 \$4,219 41 44 47 2,176 65 97 2,176 65
Salaries of cierks and attendants.  General office expenses and supplies Insurance. Law expenses Stationery and printing (general offices) Other expenses.  Taxes.  Total  RECAPITULATION OF EXPENSES.  Maintenance of way and structures Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revent miles.  Total proportion of expenses and taxes for Michigan. Percentage of expenses and taxes are miles.	Per cent of expenses. 20.30 16.93 54.16 8.61 100.00	296,553 88 84,105 28 2,740 87 141,383 95 11,841 23 1,805 56 1,142,422 89

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: (In Michigan.)

Termini.	When built. ●	Miles.
Escanaba to Negaunee Negaunee to Junction beyond Ishpeming Marinette to Escanaba Powers to Quinnesec Quinnesec to Menominee River Second Crossing of Menominee River to Crystal Falls.	In 1872	62.00 4.58 64.65 24.71 8.13 12.20
Iron River Junction to Stambaugh. Narenta to Metropolitan. Iron River to Watersmeet Junction near Ishpeming to Republic. Clowry to Michigamme. Wabic to Champion.	In 1882 In 1887 In 1888 In 1888	19.50 34.86 35.16 21.96 10.44 1.23
Branches to mines off main line	At various dates In 1891 At various dates	42.27 31.42 8.44 15.00 29.33
State line to Gogebia Gogebia to Montreal River Wateramest to Choate Interior Junction to Interior Craigsmere to Robbins	In 1884 In 1891 In 1889	26.10 40.79 22.82 1.61 3.47
Total		521.19

# MAIN LINE OR COMBOLIDATED BOAD.

# Road belonging to Chicago & Northwestern Railway Company.

Lines chartered as or consolidated with Chicago & Northwestern R'y Co.	Total	Illı- nois.	Iowa.	Wie- constn.	Mich- igan.	Minne- sota.	South Dakota,	North Dakota,
Girls and a Green I File of	101 00	-	OFD 40	· -				
Chicago to Council Bluffs	491 00.	137 88	353 12					
Chicago to Freeport.	121.00.	121 00					******	
Geneva to Anrora	9 40	9 40						
Geneva to St. Charles. Sycamore to Cort.and	2.40	2 40						
Sycamore to Cortiand	4 64	4 64		15 22				
Elgin to Williams Bay	51 04	35 82 75 78	~ ~	15 22				******
Belvidere to Spring Valley	75 78							
South Bra. Junet to River (Chicago)	4 50	4 50	20 54					
Chat a t Anamosa (Quarry)	73 57		(g 5)				******	
Stanwood to Tipton	8 50		8 00					
Cut-off near Cedar Rapids	5 96		5 96		4 6			
Des Moines to Jewell Junction.	59 09		2A 0A			**** **		
Tama to Elmore Jewel, Junction to Wall Lake Junction	164 56		104 22	·		75%		4 ****
Sewelt subction to Mail Take annoused	73 68		(3 68	~	1.6			**** ***
Eagle frove to Hawarden	145 20		145 20					
Belle Plaine to Muchakinock	64 00		64 00		-			
Boone to Coal Banks	3 25		3 25					
Maple River Junction to Onawa	80 85 79 87		80 85			* **	* ** **	
Wall Lake to Moville			18 91					
Carroll to hirkman	34 81		34 61			1000		** *
Manning to Audubon Chicago to Ft Howard	17 00	40 50	17 00	470 47				
Chicago to Ft Howard	242 20	69 73		1 1 1 2 1 1 1				
Appleton Water Power Extension	3 63			3 63 28 07				
Kenosaa to Rockford	72 10	44 03	-	28 07	w we'n			
Chicago to Montrose	5 20	5 20						
Montrose to North Evanston	7 69	1, 68						
Chicago to Milwaukee.	85 00	44 60		40 40				
Milwankee to Fond du Lac	63 63							
Sheboygan to Princeton	78 (4)							
M.lwaukee to Montfort	140 88			140 88				
Montfort to Galena	46 34	10 80		36 04				
Montfort to Woodman	30 50			30 50				
lpswich to Platteville	4 00			4 00		1000 ALC		
Lancaster Junction to Lancaster	1 04			12 01		,		
Janesville to Alton	6 10			6 10		13		
Belvidere to Winous	227 00	21 00	-	205 87				
Window Junction to La Crosse I	3 80			3 96				
Trempraleau to Galesville	6 71					***		
Evat wilde to Janesville.	15 65							*** ***
Ft Howard to Republic	102 64				153 19			
Clowry to Michigamme	10.44				10.44			
Wabie to Champan	1 33				1 23			
Powers to Watersmeet.	104 33			13,73				
Stager to Crystal Falls	9 10				9 10			
Narenta to Metropolitan	34 86				34 56			
Branches to inines								
Off m on line	42 27				42 27		100	
Oif Lecanaba & Lake Superior line	8 44		100	·	8 44			
Off Menominee River line	36 13			4 71	31 42			
Off Crystal Falls to Hemock mine.	15 00		1000		15 00			***
Off Ashland division	34 22			4 89	29 33			
Branches to industries off Ashland div	21.44	4.0		20 92				
Lake Shore Junet to Ashland, Wis.	356.13			318 24	86 89			
Monico Janction to Hurley, Wis	88 11			58 11		-		
Two Rivers Junet to Two Rivers, Wis.	6 35			6 35				
Hortonyale to Oshkosh, Wis.	23 10		1400	23 10			100	
Elau I J. netion to Marshfield, Wis	63 87			63.87				
Nort of Antigo to E. Bryant Switch	7 27			7 27				
Pratt Junction to Harrison	17 85							
Parrish Junction to Parrish	4 54			4 54			******	
Watersmeet to Choate	22 82				22 82			
Interior Janetion to Interior	1 61				1 61			
Cra gemere to Robbins	3 47				3 47			
Hursey to end of track	12 9.			12 97				
Potate River Junet, to end of track	2 60			2 60				
Extension through Sec 34,	1. 34			2 60 1 34				
						7		
							Ē.	
Total C & N. W. R'y (chartered or )	9,789,90	509.07	1 189 19	51.5161.54	521 19	47		

Total length of road belonging to this company 3,782.29

Total length of road belonging to this company, in Michigan 521.19

Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated. Aggregate length of tracks in Michigan belonging to this company, computed as single track 695.78

Gauge of track, 4 feet 8½ inches-8,766.29 miles.

### Proprietary or leased roads operated by this company.

### Name, description and length of each:

Proprietary lines, viz:	Total.	Illi- nois.	Iowa.	Wis- consin.	Mich- igan.	Minne- sota.	South Dakota,	North Dakota
Princeton & Western R'y Valley Junction to Necedah								
Winona & St. Peters R. R. Winona to Watertown	448.48					288.50	34.48	
Mankato Junction to Mankato Sleepy Eye to Redwood Falls Rochester to Zumbrota						24.40		
Eyota to Plainview  Eyota to Chatfield  Tracy to Dakota line						15.01 11.46 46.40		
Dakota Central R'y			,					
James Valley Junction to Oakes							117.67 43.88	14.2
Watertown to Gettysburg. Iroquois to Hawarden (State line) Centerville to Yankton							125.49 28.46	
Doland to Groton	<u> </u>						-	
Total	1,188.47			16.06		414.00	744.13	14.28
Leased lines, viz.:								
St. Paul Eastern Grand Trunk R'y Clintonville to Oconto Spurs				56.00				
Total	60.02			60.02				
Recapitulation.								
C. & N. W. B'y (chartered or consoli- dated) Proprietary lines Leased lines	3,782.29 1,188.47	598.97	1,163.12	1,508.54 16.06 60.02			744.18	14.2
Grand total	5,090.78	593.97	1,163.12	1,579.62	521.19	414.47	744.18	14.2

Number of bridges and trestles in Michigan.	A	Aggregate
	Number. L	ength, feet.
Wooden bridges	. 38	2,690
Stone bridges	. 2	60
Iron bridges	_ 11	1,807 701
Combination bridges		701
Wooden trestles	. 303	27,089
Total	358	32,347

### Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Chicago, Milwaukee & St. Paul R'y at Balsam. Chicago, Milwaukee & St. Paul R'y at Menominee (3 crossings.) Chicago, Milwaukee & St. Paul R'y at Antoine. Chicago, Milwaukee & St. Paul R'y at Wabic. Minneapolis, St. Paul & Sault Ste. Marie R. R. at Hermansville. Minneapolis, St. Paul & Sault Ste. Marie R. R. near Narenta (2 crossings.) Duluth, South Shore & Atlantic R. R. at Negaunee. Duluth, South Shore & Atlantic R. R. near L. Angeline. Duluth, South Shore & Atlantic R. R. at Michigamme. Duluth, South Shore & Atlantic R. R. at Diorite. Duluth, South Shore & Atlantic R. R. at Diorite. Duluth, South Shore & Atlantic R. R. at Dishno. Duluth, South Shore & Atlantic R. R. near Republic. Huron Bay & Iron Range R. R. at Dishno. Wisconsin Central R. R. spur, Palmee mine spur at Anvil mine. Wisconsin Central R. R. at Renjamin mine spur at Colby mine. Duluth, South Shore & Atlantic R. R. at Jack Pot Mine spur at Imperial mine. Lake Superior & Ishpeming R. R. at Negaunee.	
What railroads cross your road either over or under your grade in this State, and where? Over: Duluth, South Shore & Atlantic R. R. at Negaunee (2 crossings). Duluth, South Shore & Atlantic R. R. at 8-10 miles west of Bessemer. Chicago, Milwaukee & St. Paul R. R. at Antoine. Wisconsin Central R. R. at 3-10 miles east of Siemens. Wisconsin Central R. R. at 1-ronwood. Lake Superior & Ishpeming R. R. at Negaunee (2 crossings). Under: Duluth, South Shore & Atlantic R. R. near Wabic. Minneapolis, St. Paul & Sault Ste. Marie R. R. at Flat Rock.	
At what crossings are interlocking and derailing switches in operation? At Duluth, South Shore & Atlantic crossing, one mile east of Michigamme. At Chicago, Milwaukee & St. Paul crossing at Wable. At Chicago, Milwaukee & St. Paul Republic branch crossing two miles east of Republic At Minneapolis, St. Paul & Sault Ste. Marie R'y near Narenta.	•
What pattern or patterns have you adopted? Union Switch & Signal interlocking switches.	
Number of crossings of highways at grade in this State	205 19 6
What pattern or patterns in use? Mills' improved air gate with double lock posts.	
Number of crossings of highway over or under railroad: over 2, under 7	9 2
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blooked as required by act 174, session laws 1883? Yes.	
How are they treated? Wooden or iron blocking.	
Stations.	
Number of stations on whole lines at which there are buildings and agents	746 46
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	20,745 1,389
-	•
Classify your employés as per following list:  Baggagemen	Number. 408
Baggagemen	1,474 799 1,177 1,305
Engineers.	1,177
Firemen Laborers	5.036
Shopmen Yardmen Others	4,368 785
Others	5,398

### REPAIRS AND RENEWALS.

Fencing in Michigan.	
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan and the counties in which needed:  Iron	681.74
Total miles required	860.64
Road bed and track.	
Number of track sections in Michigan Average lengths of sections, miles Average number of men in each section gang Number of new ties put in whole line during the year. Number of new ties put in track in Michigan Average number of new ties per mile of road	1,556,597
New rails put in track: Steel, tons, 19,242.1633, miles Total miles of track laid with new rails	813.82 156.91
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, linear feet	517
With sewer pipe—number. With timber—number. With timber—number. New bridges built during the year—number	28

Location.	Kind.	Material.	Month built.	Feet in length.
Wellington Wellington Foster City Crystal Falls	Pile Pile Pile Pile trestla Timber trestle	Wood Wood Wood	July October January January	60 60 192 400
Norway Waucedah Menominee Menominee Carbondale	Timber trestle	Wood Wood Wood Wood	March June June July July	32 80 82 32 48
Brampton Spruce Spruce Metropolitan Iron River	Pile trestle Pile trestle Pile trestle Pile trestle Pile trestle Pile trestle	Wood Wood Wood Wood	July July July July July	144 48 48 64 64
Negaunee Wallace Ingalis Talbot Carney	Timber trestle Pile trestle Pile trestle Pile trestle Pile trestle	Wood Wood Wood Wood	July	44 82 48 29 60
Alecto	Pile trestle	Wood Wood Wood Wood	August	49 32 80 64
Stephenson Alecto Alecto Alecto Alecto	Pile trestle	Wood Wood Wood Wood	September September September September September	32 48 80 32
Faunas Helps Hylas Norway Biroh Creek	Pile trestle	Wood Wood Wood Wood	September October October October November	48 80 80 48 48 48
Norway Norway Menominee	Pile trestle	Wood Wood	November November December	48 48 96

NOTE.—Wooden trestle approaches to truss and other large span bridges are counted as one structure and are included in the total number of trestles.

### ROLLING STOCK.

ROLLING STOCK.		Present esti-
		mated value.
Number of locomotives of more than 30 tons' weight, exclusive of tender Number of locomotives of 20 to 30 tons' weight, exclusive of tender Number of locomotives of 10 to 20 tons' weight, exclusive of tender	948 60	
Total	1,010	\$4,646,000 00
Number of passenger cars—12-wheel, including parlor, buffet and official cars—Number of passenger cars—8-wheel, including chair and official cars—Number of express and baggage cars—Number of box freight cars—Number of stock cars—Number of platform and coal cars—Number of or cars—Number of or cars—Number of or cars—Number of or cars—Number of or cars—Number of or cars—Number of conductors' way cars—Number of conductors' way cars—	361 150 20,269 2,881 6,893	883,600 00 150,000 00 6,080,700 00 864,300 00 1,792,700 00 652,650 00
Other cars as follows:         Dining         Milk       4         Mail       5         Combination       7         Boarding (for men)       2         Excavator, pile driving and wrecking       4         Rotary steam plows       4	5 6 8	٠
	289	811,500 00
Total	85,911	\$11,636,650 00
Grand total		\$16,282,650 00
Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  Number of freight ears equipped with power brakes.  What patterns of power brakes have you in use, and number of locomotives and each?		. 894
Number of locomotives equipped with Westinghouse automatic air brakes  Number of locomotives equipped with Westinghouse automatic air and driver Number of locomotives equipped with American steam brakes  Number of locomotives equipped with American ateam driver and Westingho  matic air brakes  Number of passenger cars equipped with Westinghouse air brakes	brakes use auto	. 863 . 36 . 67
Number of freight cars equipped with Westinghouse air brakes		
Are your freight cars being equipped with automatic couplers as required by act of 1885, as amended by act No. 88, session laws of 1887? Yes.	No. 147,	session laws
What pattern or patterns have you adopted for usef Janney coupler; Chicago automatic steel coupler.		
How are your passenger cars heated. Stoves, Baker hot water heaters and steam.		

# MILEAGE TRAFFIC, ETC.

Train mileage.	ire lines. L	Michigan.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains	9,732,602 15,682,502 889,420	404,634 1,133,958 94,240
Total mileage of trains earning revenue.	26,304,524	1,632,832
Passenger traffic.—Entire lines.		
Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue		
Total number of passengers carried, earning revenue 14,395,984		
Number of passengers carried one mile		\$0 50.396 02.199 02.055
Average receipts per passenger per mile for all passengers		02.065

# Passenger traffic.—In State of Michigan.

Number of through passengers carried, earning revenue	1,010 278,095		
Total number of passengers carried, earning revenue	279,105		
Number of passengers carried one mile  Average distance carried  Average amount received from each passenger  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers			80 76.882 02.705 02.928 02.928
Freight traffic.—Entire lines.			
	Tops.	Miles.	Rate.
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	380,104 15,392,538		
Total tons of freight carried, earning revenue	15,772,642		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile for through freight Average ton receipts per mile for local freight Average ton receipts per mile for local freight Average receipts ton per mile for all freight		2,381,292,704 370 142 148	\$1 47 00.82 01.00 00.99
Freight traffic.—In State of Michi	igan.	•	
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	4,928 4,174,536		
Total tons of freight carried, earning revenue	4,179,459		
Total mileage of through freight.  Total mileage of local freight.  Total freight mileage or tone carried one mile.  Average ton haul for through freight.  Average ton haul for local freight.  Average amount received for each ton haul.  Average amount received for each ton haul.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.		204,441,751 29 49 49	\$0 42.54 01.17 00.87 00.87

# FREIGHT TRAFFIC AOVEMENT.—ENTIRE LINES.

# Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	1,505,493	502,536 189,968	2,008,081	12.78
FlourOther mill products	95,982 62,141	76,925	285,950 189,066	1.81 .88
Нау	1 88,219	114,588	202.802	1.29
Tobacco	6.740	1,125	7,865	.05
Cotton. Fruit and vegetables	452	447	899	.01
Potatoes	166,604 7,781	75,988 1,717	242,587 9,448	1.54 .06
Products of animals:	450 500	200 400	***	
Live stock	452,509 51,091	238,496	691,005 62,391	4.88
Dressed meats. Other packing house products Poultry, game and fish.	132,638	11,300 58,881	186,469	.40 1.18
Poultry, game and fish	12,672	1 7.582	20,204	.18
Wool Hides and leather	4,775 82,864	5,635 8,258	10,410 41,122	.07 .26
Products of mines:				
Anthracite coal	490,268 1,211,768	52,764	543,027	3.44 9.17
Coke	110.357	284,197 873	1,445,965 111,230	9.17 .70
Ores	3.515.626	2.822	8,518,448	22.81
Ores Stone, sand and other like articles Salt	498,192 60,238	36,181 1,865	8,518,448 529,873 62,098	8.36 .89
Products of forest:				
Lumber	810,582	215,095	1,025,677	6.50
LogsShingles .	20,047 1,110	285	20,047 1,395	.13 .01
Other forest products.	789,984	36,020	825,954	5.24
Manufactures: Petroleum and other oils	174,448	4,162	178,605	1.13
Gm ma m	91 809	6,192	38,084	.24
Naval stores	394		394	
Naval stores Iron, pig and bloom Iron and steel rails Other castings and machinery	175,569	16,988	192,557	1.22
Other cestings and machiners	38,249 103,178	186 8,639	38,435 111,817	.24 .71
Bar and sheet metal	215,831	18,475	228,806	1.45
Cement, brick, and lime	259.529	29,922	289,451	1.88
Agricultural implements	78,220 110,785	12,335	90,555	.57
Agricultural implements. Wagons, carriages, tools, etc. Wines, liquors and beers	110,785 210,224	15,308 5,117	126,093 215,841	.80 1.87
Household goods and furniture	91,459	9,684	101,148	.64
Merchandise	861,523	182,502	1,044,025	6.62
Miscellaneous: Other commodities not mentioned above	1,070,577	KR 044	1 195 000	7.14
Other commodities not mentioned above	1,0/0,5/7	55,346	1,125,923	7.14
Total tonnage	18,544,398	2,228,244	15,772,642	100.

# MICHIGAN RAILROAD RETURNS, 1896.

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN. .

### Company's material excluded.

a	Freight originating	Freight re- ceived from connecting	Total freigh	ht tonnage.
Commodity.	on this road.		Whole tons.	Per cent.
Products of agriculture:				
Grain	349	946	1,295 2,681	.0
FlourOther mill products	1,092	1,589	1,188	.0°
Hay.	1,614	5,594	7,208	.1
Tobacco	2,012	0,002	1,200	• 41
Tobacco Fruit and vegetables.	1,538	224	1,757	.0
Potatoes	117	84	201	.0
Products of animals:				_
Live stock	762	237	999	.00
Other packing house products	166 194	345 112	511 306	0
Ponitry, game and fish	198	1 11/4	202	0
Other packing house products Poultry, game and fish Hides and leather	126		126	
Products of mines:	Ì			
Anthracite coal		2,695	9,700	.2-
Bituminous coal	42,158	259	42,412	1.0
Ores	3,402.619		8,402,619	84.0
Ores Stone, sand, and other like articles Salt	3,155 94	1,416	4,571 94	.1:
Products of forest:	İ			
Lumber	183,699	6,506	140,205	8.4
Logs	10.571		10,571	.2
Shingles Other forest products	308	15	823	0
Other forest products	857,545	346	857,891	.8.9
Manufactures: Petroleum and other oils.	871	12	883	.0
Sugar		17	17	.0
Iron, pig and bloom	3,520	1 15	3,535	.0.
Iron and steel rails	1		1	
Other castings and machinery	1.207	183	1,390	.0
Bar and sheet metals	138	18	151	
Cement, brick and lime	824	783	1,557	.0
Wagons, carriages, tools, etc.	48	33	76	
Wines, liquors and beers.	1,830	62	1.892	.0.
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beera. Household goods and furniture.	1,893	95	1,988	.ŏ
Merchandise	10,977	1,016	11,993	.8
Miscellaneous: Other commodities not mentioned above	12,208	1,842	13,550	.8
	l ———			<del></del>
Total tonnage	3,997,266	24,598	4,021,864	100.0

# ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depet, or at the office of such express companies?

American Express Co.

By an agreement with American Express Company of date April 16, 1894, to be in force uptil the first day of April, 1899. The C. & N. W. R'y Co. agrees to transport the freight of the express company over all lines operated by the rallway company, aggregating 5,066 miles, for an annual payment of \$550,659.96 (with provision for an extra payment for facilities on special trains), for an estimated limited tonnage, and an agreed schedule of rates for exceptional excess of tonnage. The express company does a miscellaneous business properly belonging to express business. They deliver their freight into this company's cars.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

The entire length of road is afforded telegraph facilities by the lines of the Western Union Telegraph
Company in which this company owns certain wires, or rights of their use.

# Transportation companies.

### SLEEPING, DRAWING BOOM AND PALACE CAR COMPANIES.

What sleeping, drawing room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report? Sleeping cars owned by Wagner Palace Car Co. have been in use on portions of this company's road in Michigan. The car company maintains the cars, and fixes and collects the charges from passengers for accommodations in same. For the use of the cars the C. & N. W. R'y Co. pays a mileage.

This company has paid the Wagner Palace Car Co. of New York for mileage of their ears in Michigan during the year, \$2,321.49.

# Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

This company has no cars of other companies or lines in use exclusively for traffic between local points in the State of Michigan.

Cars of other companies coming into the State with inter-state freight may do some business between local points, but the mileage applicable to such limited traffic cannot be separated.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

# KILLED.

May 19, John Dadusic, Ironwood. Fell from car. Want of caution.
June 7, M. Murek, Powers. Walking on track, struck. Carelessness.
June 19, unknown man, Vulcan. Walking on track, struck. Carelessness.
June 22, G. Madsen, Escanabs. Walking on track, struck. Carelessness.
July 7, R. Snow, car repairer, Escanabs. Working under train which moved. Want of caution.
July 8, John Stonehouse, engineer, Trombly. Engine exploded. Accidental.
July 19, M. M. Michaels, Marenisco. (rossing track, struck. Want of caution.
July 20, P. Johnson, Moman. Walking on track, struck. Carelessness.
July 26, P. Manning, Powers. Getting on moving train.

# INJURED.

January 14, E. Hendricks, fireman, Autoine. Fell from engine tank; want of caution.

January 21, N. DeSeck, conductor, Menominee. Derailment; accidental.

February 10, M. Jargers, switchman, Iron Mountain Coupling cars; want of caution.

March 5, S. J. Kerr, switchman, Iron Mountain Coupling cars; want of caution.

March 5, S. J. Kerr, switchman, Iron Mountain. Jumped from train and fell; want of caution.

April 2, J. DeLoris, brakeman, Beaver Siding. Jumped from train and fell; want of caution.

June 1, F. Rath, switchman, Iron Mountain. Fell from engine; want of caution.

June 18, Flora McKinnon, Metropolitan. Ran in front of train; ran over; carelessness.

July 4, P. Barchiera, Negaunce. Walking on track, struck; carele sness.

July 7, H. Godette, car repairer, Escanaba. Working under train, which moved; want of caution.

July 7, P. Bilgren, car repairer, Escanaba. Working under train, which moved; want of caution.

July 8, F. C. Buell, fireman, Trombly. Engine exploded; accidental.

July 8, W. E. Rogers, conductor, Trombly. Engine exploded; accidental.

July 8, G. Gorgens, brakeman, Trombly. Engine exploded; accidental.

August 24, M. H. King, Siding No. 5. Getting on moving train; fell; carelessness.

August 28, E. Hall, engineer, Hazel Janction. Logs rolled off cars, striking engine; accidental. August 26, T. G. Atkinson, Basel Sunction. Logs rolled off cars, striking engine; accidental. August 26, E. Hickey, fireman, Hazel Janction. Logs rolled off cars, striking engine; accidental. August 29, Jno. Burns. Stager Walking on track, struck, carelessness. September 28, Chast Pairell, pwitchman, Iron Mountain. Uncoupling cars; want of caution. October 15, J. Jerewsky, Ironwood. Crawling under care; carelessness. November 17, A. Sara, laborer, Mansfield Mine. Thrown down in car, by jar; accidental. November 17, I. Johnson, laborer, Mansfield Mine. Thrown down in car, by jar; accidental. November 17, A. Johnson, laborer, Mansfield Mine. Thown down in car, by jar; accidental. November 27, J. B. Aiken, brakeman, Atkinson. Coupling cars; lumber struck knee; want of caution.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.					
Catalog Or applicate.	Passongers.	Employés.	Others.	Passengers.	Employee.	Others.
Coupling care Derailments Palling from trains Getting on and off trains. Highway crossings Miscellaneous Prespassers on tracks	**************************************	1	***************************************	1	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*********
Total		8	6	2	18	

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year  Number of persons injured during the year.  Number of casualties purely accidental.  Number resulting from lack of caution, carelessness or misconduct.  Trespassers and tramps killed or injured.	24 11 22

# CLASSIFICATION OF EMPLOYES.

# KILLED OR INJURED IN MICHIGAN.

	Killadi	Injured.	Total.
Brakeman Conductors	**********	3 2	8
Engineers	1	8	
Shopmen Yardmen.	1	4	
Total	2	18	20

STATE OF ILLINOIS, COUNTY OF COOK, }es.

M. Hughitt, president, and J. B. Redfield, auditor, of the Chicago and Northwestern Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1895, to the best of their knowledge and belief.

[L. 6. OF E. E.]

Signed,

MARVIN HUGHITT, J. B. REDFIELD.

Subscribed and sworp to before me this 19th day of February, A. D. 1897.

J. F. CLEVELAND, Notary Public.

### ANNUAL REPORT

OF THE

# CHICAGO & WEST MICHIGAN RAILWAY COMPANY.

For the year ending December \$1, 1896.

[Filed April 14, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.

Pice President, EUGENE V. R. THAYER, Boston, Mass.

Secretary, CHARLES MERRIAM, Boston, Mass.

Auditor, U. B. ROGERS, Grand Rapids, Mich.

Treasurer, CHARLES MERRIAM, Boston, Mass.

General Manager, CHARLES M. HEALD, Grand Rapids, Mich.

General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.

General Superintendent, F. M. DRAKE, Grand Rapids, Mich.

General Auditor, C. W. COURTRIGHT, Boston, Mass.

Chief Engineer, J. J. McVEAN, Grand Rapids, Mich.

Superintendent of Telegraph, F. H. CARR, Grand Rapids, Mich.

Assistant Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.

General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.

General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.

Solicitor, F. A. NIMS, Muskegon, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
CHARLES MERRIAM, Boston, Mass.
A. H. HARDY, Boston, Mass.
F. H. DAMON, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
C. F. ADAMS, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire, April 21, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 1, 1881.

Number of stockholders at date of last election: 645.

Number of stockholders in Michigan at same date: 87,100.

Amount of full paid stock held in Michigan at same date: 87,100.

Date of annual meeting of stockholders: Third Wednesday in April.

Fiscal year of company ends: December 31.

General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

GENERAL EXHIBIT.  Total earnings from operation { C. & W. M. R'y	Debit. \$1,321,475 88	Credit. \$1,642,617 10
Net income		\$821,141 22
Interest on funded debt	\$408,864 28 1,496 80	
Balance for the year. Balance (profit and loss) last year.		\$85,726 76 78,734 05
Balance foward to next year		\$11,992 71
AMALYSIS OF CAPITAL STOCK.  Amount authorized by charter or articles of association: C. & W. M. R. Y. C. & N. W. R. R.	<b>\$</b> 7,525,000 <b>0</b> 0	
Par value of shares \$100 00 Number of shares issued 74,482 Amount paid in on common Amount paid in on shares not issued—number 636		\$9,025,000 00
Total amount paid in, as per books of the company		7,511,800 00
Paid in per mile of road owned by company, 581.114 miles		\$12,926 55
ANAL VOIC OF THEM ACCOUNTS		

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out standing.
Grand Rapids, Newaygo & Lake Shore R. R. 2d div. 1st mortgage bonds on 10 miles		·····	Union Trust Co	
of road, Newsygo to White Cloud, Mich. Chicago & West Michigan R'y Co. mort-	7≴	June 1, 1905	New York	\$19,000 00
gage on 488.501 miles of consolidated line.		D. 4 4004	Company's office,	F 7F0 000 0
subject to above mortgage		Dec. 1, 1921	Boston, Mass	5,758,000 00
gage on 92.613 miles of road, Traverse City to Elk Rapids to Bay View, principal	1			
and interest guaranteed by the Chicago & West Michigan R'v	3≰	May 1, 1931	Boston, Mass	1,667,000 00
The Michigan Equipment Co. Ltd. 1st mort- gage on rolling stock purchased with pro-				
ceeds of bonds, principal and interest guaranteed by the Chicago & West Mich-	İ			
igan R'y Co. Chicago & West Michigan R'y, ten-year cou-	6%	June 1, 1902	Boston, Mass	298,000 00
pon scrip, issued Nov. 1, 1894, in payment				
of 50% of C. & N. M. 5% bonds, int. due Nov. 1, 1894	5≰	Nov. 1, 1904	Boston, Mass	20,837 50
Issued Dec. 1, 1894, in payment of 50% of C. & W. M. 5% bonds, int. due Dec. 1, 1894	5≴	Dec. 1, 1904	Boston, Mass	70,512 50
Issued May 1, 1895, in payment of 50% of C. & N. M. 5% bonds, int. due May 1, 1895	5≰	May 1, 1905	Boston, Mass	20,812 50
Issued June 1, 1895, in payment of 50% of C. & W. M. 5% bonds, int. due June 1, 1895	5%	June 1, 1905	Boston, Mass	70,450 00
Issued Nov. 1, 1895, in payment of 50% of C. & N. M. 5% bonds, int. due Nov. 1, 1895	5≰	Nov. 1, 1905	•	1
Issued Dec. 1, 1895, in payment of 50% of C. & W. M. 5% bonds, int. due Dec. 1, 1895	5 <b>%</b>	Dec. 1, 1905	•	l '
Issued May 1, 1896, in payment of 50% of C.			•	1
& N. M. 5% bonds, int due May 1, 1896 Issued June 1, 1896, in payment of 50% of C.	5≴	May 1, 1906	-	i '
& W. M. 5% bonds, int. due June 1, 1898 Issued Nov. 1, 1896, in payment of 50% of C.	5≴	June 1, 1906		
& N. M. 5% bonds, int. due Nov 1, 1896 Issued Dec. 1, 1896, in payment of 50% of C.	5≰	Nov. 1, 1906	•	i.
& W. M 5% bonds, int. due Dec. 1, 1896	5≰	Dec. 1, 1906	Boston, Mass	65,650 00
Total				\$8,187,075 00

### UNFUNDED DEBT.

For what insurred.	Is the same to be funded or how liquid	ated?	Amount.
For construction For equipment For real estate For renewals For miscellaneous For current balances	To be paid from earnings		\$458,620 30
Total unfunded debt			\$458,620 90
	RECAPITULATION.		
Total funded debt			\$8,187,075 00 458,620 30
Total debt liabilities			\$8,645,695 30
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road, 5	e of road, 581.114 miles		14,877 79 16,157,495 80 27,804 84.
	ENERAL BALANCE SHEET.—Dr.		
Construction account: C. & W. M. R'y C. & N. M. B. R. Equipment account	ulpment Co. (L'td.)		\$11,107,460 14 1,809,880 04 1,508,485 59
Other investments: C. & W. M. B'y stock scrip Muskegon Lake R. B. stock C. & N. M. R. R. capital stock	uipment Co. (L'Cd.)	\$21 80 33,600 00 810,000 00	 
Cash items:		\$99,375 52 208,727 04 82,260 88	848,621 80
Other assets: Materials and supplies Sinking funds Debit balances from companies	and individuals.	\$80,214 79 4,000 00 168,477 29	340,368 44
Income account	······		247,692 08 11,992 71
Total			\$16,157,495 30
a a	ENERAL BALANCE SHEET.—Cr.		
_	STATE OF STA	\$7,787,000 00 450,075 00	\$7,511,800 00
Unfunded debt:		\$216,868 08 195,780 04	8,187,075 00
Vouchers and accounts	ompanies	25,972 18 20,000 00	
			458,620 80 16,157,495 80
	OST OF BOAD AND EQUIPMENT.		
	PUBCHASED BY PRESENT COMPANY.		
Amount expended since purchase	il. , of road and equipment. , account of construction , account of equipment tincluding sidings) 488.501 miles	<b></b>	962.497 83
14	•		

# MICHIGAN RAILROAD RETURNS, 1896.

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

### MAIN LINE.

Extensions and new sidings	\$19,280 80 15,774 28	\$35,055 08
Branches.		•
Right of way		1,578 88 17,100 t4
Total charges		\$58,728 95
Total charges to property account as above.  Property sold and credited	\$58,728 95 25 00	
Net addition to property account		58,708 95

Analybib of Barnings.—In State of Michigan.

PASSENGER BARNINGS.

	Local fares.	Through fares.	Total passen-Express and get fares. baggage.	Express and baggrage.	Kails.	Total.	Per train mile.	Fer mile of road.
Main line and branches	\$448,090 96	\$7,402 11	8455,498 07	\$80,258 55	\$58,967.84	\$639,718 96	<b>8</b> 7 <b>08</b>	\$1,188 73
Leased or proprietary roads: C. & N. M. B. R., north of parallel 44 of latitude	44,591 10		44,591 10	6,007 21	8,872 72	50,061 08		687 71
Total passenger department earnings	\$492,682 06	\$7,402 11	\$500,084 17	\$36,855 76	\$62,340 08	8698,779 99	85 E	\$1,826 43
		FREIGHT 1	PREIGHT HARNINGS.					
		Local traffic.	Throngh traffic.	Total traffic.	Other sources, freight department.	Total	Per train mile.	Per mile of road.
Main line and branches.		\$841,757 96	\$21,295 14	\$863,053 10	\$1,728 46	\$870,776 56	23	\$1,917 86
C. & N. M. B. B., north of parallel 44 of latitude		64,692 09		64,662 09		64,692 09		698 52
Total freight department earnings		\$906,450 05	\$21,285 14	91 97.128	\$7,723 46	\$9856,468 65	25	\$2,616 38

# Analysis of Earnings.—Entire lines.

PASSENGER BARNINGS.	
Main line and branches:       \$526,697 92         Local fares       \$7,964 02         Through fares       7,964 02	
Total passenger fares	
Express and baggage       38,652 77         Mails       66,436 87	
Total passenger department earnings	<b>\$639</b> ,751 <b>5</b> 8
Per train mile       \$0.81         Per mile of road       1,100.91	
FREIGHT BARMINGS.	
Local traffic \$970,350 27 Through traffic 22,911 72	
Total traffic   \$993,261 99	
Total freight department earnings	1,001,571 76
Per train mile       \$1 33         Per mile of road       1,723 53	
Total transportation earnings, entire lines: C. & W. M. R'y \$1,517,570 22 C. & N. M. R. R. 123,753 12	
Transportation earnings per mile of road   \$2,824 44   Transportation earnings per train mile   1 06	1,641,323 84
Miscellaneous receipts from operating account, other than for transportation, as follows: From other sources	1,298 76
Total	\$1,642,617 10
Total earnings from operation of road: C. & W. M. R'y \$1,518,863 98 C. & N. M. R. R. 123,753 12	
Total earnings per mile of road \$2,826 67	1,642,617 10
Total earnings per mile of road	1,411,698 01 3,109 23 1,612,617 10
Total income from all sources   Proportion of income from Michigan :   C. & W. M. R'y	1,612,617 10
C. & N. M. H. H	1,535,451 18
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$186,829 87 15,460 26
Repairs of roadway.  Renewals of rails.  Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves.  Repairs and renewals of telegraph.  Stationery and printing.  Other expenses.	15,460 26 104,888 95 16,987 24
Repairs and renewals of fences, road crossings, signs and cattle guards	12,591 29 20,008 80
Repairs and renewals of buildings and fixtures	20,008 80 1,326 80
Repairs and renewals of telegraph	3,194 29
Other expenses.	358 10 5,243 98
Total	\$366,884 58
MAINTENANCE OF EQUIPMENT.	
Superintendence.  Repairs and renewals of locomotives.  Repairs and renewals of passenger cars.  Repairs and renewal of freight cars.  Repairs and renewals of work cars.  Repairs and r- newals of shop machinery and tools.	\$5,819 90 63,401 61 38,043 23 71,446 66 1,118 28 2,972 77
Stationery and printing Other expenses	621 43 6,552 82
Total	\$189,976 70

### CONDUCTING TRANSPORTATION.

•		
Superintendence		\$21,452 46
Engine and roundhouse men		122.814 59
Fuel for locomotives. Water supply for locomotives Oil, tallow and waste for locomotives.		\$21,452 46 122,814 59 129,081 22 10,715 41
Water supply for locomotives		10.715 41
Oil tallow and waste for locomotives		
Other supplies for locomotives		1 921 98
Their supplies		1,321 23 90,793 05
Train service Train supplies and expenses Switchmen, fiagmen and watchmen Telegraph expenses		90,180 00
Guidalan Augusta Augus		20,818 75 52,336 89
Switchmen, nagmen and watchmen.		04,000 09
Telegraph expenses		24,980 58
Station service		104,167 66
Station supplies.		8,275 44
Car mileage—helance		4.120 4X
Hire of equipment Loss and damage Injuries to persons		14,017 31
Loss and damage		6,227 89
Injuries to persons		4,666 46
Clearing wrecks		X91 10
Advertising		7,104 24 18,213 28
Ontaide agencies		18.218 28
Commissions		0.98
Panto for tracks wards and towningle		9 38 10,332 90 1,710 61
Dent of buildings and other property (less)		1 710 61
Commissions Rents for tracks, yards and terminals, Rent of buildings and other property (less) Stationery and printing		17 000 17
Stationery and printing.		17,890 17 229 56
Other expenses		229 00
m 4.3		
Total		\$667,590 78
GHNERAL EXPENSES.		
		A4E 000 00
palaries of general omcers		\$17,888 82
Salaries of general officers		28,532 78
General office expenses and supplies		2,118 54
Insurance		6,817 71
Law expenses.		\$17,388 82 28,532 78 2,118 54 6,817 71 5,534 97
Law expenses. Stationery and printing (general offices)		2,825 82
Other expenses		1,671 62
Taxes		38,194 06
Total		\$97.078.82
Total		\$97,078 82
Total		\$97,078 82
Total		\$97,078 82
•		\$97,078 82
RECAPITULATION OF EXPENSES.		
RECAPITULATION OF EXPENSES. Per	cent of	
RECAPITULATION OF EXPENSES. Per		
RECAPITULATION OF EXPENSES.  Per exp	cent of	
RECAPITULATION OF EXPENSES.  Per  exp  Maintenance of way and structures	cent of censes. 27.76	2988 894 58
RECAPITULATION OF EXPENSES.  Per expenses of way and structures	cent of enses. 27.76 14.87	2988 894 58
RECAPITULATION OF EXPENSES.  Per expenses of way and structures	cent of enses. 27.76 14.37 50.52	2988 894 58
RECAPITULATION OF EXPENSES.  Per  exp  Maintenance of way and structures	cent of enses. 27.76 14.87	
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment Conducting transportation General expenses, including taxes	cent of censes. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82
RECAPITULATION OF EXPENSES.  Per expenses of way and structures	cent of censes. 27.76 14.87 50.52 07.85	2988 894 58
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes	cent of enses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes	cent of enses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, i.	cent of prises. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, i.	cent of prises. 27.76 14.87 50.52 07.85	\$386,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 08
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, i.	cent of prises. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes	cent of prises. 27.76 14.87 50.52 07.85	\$386,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 08
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 08 1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, I miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes Not earnings per mile of road Net earnings per train mile.	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes  Total operating expenses and taxes Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes Net earnings per mile of road Net earnings per train mile	cent of or uses. 27.76 14.87 50.52 07.85	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1, miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes  Not earnings per mile of road  Not earnings per train mile  DESCRIPTION OF ROAD.	cent of enses. 27.76 14.87 50.52 07.85 100.00	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, I miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes Not earnings per mile of road Net earnings per train mile.	cent of enses. 27.76 14.87 50.52 07.85 100.00	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, I, miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile.  DESCRIPTION OF ROAD.	cent of enses. 27.76 14.87 50.52 07.85 100.00	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation  General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1, miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 16	cent of enses. 27.76 14.87 50.52 07.85 100.00	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, I, miles.  Proportion of operating expenses and taxes for Michigan, main line.  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile.  DESCRIPTION OF ROAD.	cent of enses. 27.76 14.87 50.52 07.85 100.00	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68 552 64 21
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 18	cent of penses. 27.76 14.87 50.52 07.85 100.00 80.45	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68 552 64 21
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 18	eent of enses. 27.76 14.37 50.52 07.85 100.00 3545,448 80.45	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68 552 64 21
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 18	cent of penses. 27.76 14.87 50.52 07.85 100.00 80.45	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68 552 64 21
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 16  MAIN LINE.  In Michigan, from Indiana State line to Traverse City.  In Indiana from Michigan State line to La Crosse.	eent of penses. 27.76 14.87 50.52 07.85 100.00 .545,448 .80.45	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68 552 64 21
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 18	eent of penses. 27.76 14.87 50.52 07.85 100.00 .545,448 .80.45	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68 552 64 21
RECAPITULATION OF EXPENSES.  Per exp  Maintenance of way and structures  Maintenance of equipment  Conducting transportation General expenses, including taxes  Total operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains earning revenue, 1 miles.  Proportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan  Percentage of expenses to earnings, including taxes.  Not earnings per mile of road  Not earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: December 3, 16  MAIN LINE.  In Michigan, from Indiana State line to Traverse City.  In Indiana from Michigan State line to La Crosse.	eent of penses. 27.76 14.87 50.52 07.85 100.00 .545,448 .80.45	\$366,884 58 189,976 70 667,590 78 97,073 82 \$1,321,475 88 2,274 03 1,243,091 68 \$1,243,091 68 552 64 21

#### BRANCHES.

BEARUHES.		
From Allegan to Pentwater From Big Rapids Junction to Big Rapids From Mears to Hart From Kirk's Junction to Muskegon From Pickands to Fruitport From Macatawa Junction to Ottawa Beach From Clary to Honor From Muskegon to Port Sherman	98.55 51.60 3.78 11.98 1.76 6.18 9.62 5.21	
Total length of branches owned by company		188.68
Total length of branches owned by company in Michigan	188.68	
Total length of road belonging to this company		488.50
Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	454.04 155.01	
enumerated Aggregate length of tracks in Michigan belonging to this company, computed track	as single	609.05
Gauge of track, 4 feet 8½ inches.		
Proprietary or leased roads operated by this company,		•
Name description and langth of each:	otal miles. I	n Michigan.
Name, description and length of each: Chicago & North Michigan R. R., north of parallel 44 of latitude	92.613	92.613
Total miles operated by the company'		92.613
If north of parallel 44 of latitude:		
Give date road commenced to be built: May 15, 1891.		
Give date road completed: July 15, 1892.		
Give date road commenced to be operated: June 28, 1892.		
Where built from and to: Traverse City to Bay View, 79.021; Elk Rapids to Williamsburg, 9.512; Ironto	to Cherrie	, 4.080.
Give exact number of miles: 92.613.		
Number of bridges and trestles in Michigan.		
	Number.	Aggregate length, feet.
Wooden bridges	7	6861/4 20
Trop pridges	21	2,783
Combination bridges	164	688 19,732
Total	197	28,909%
		<del>=</del>
Draw bridges in Michigan.		_
How many on your line		Feet.
1. St. Joseph, 1889 2. Grand Bapids, 1882		284
2. Grand Rapids, 1002	••••••	162 46
2. Grant aspicis, 1802 3. Muskegon, 1891 4. Montague, 1894 5. Elk Rapids, 1892 6. Charlevolx, 1892		162 46 46 101 214

Character of structure:
Nos. 1, 2, 6 through trusses, two openings; No. 5 through girder, one opening; Nos. 3 and 4, deck girders, one opening.

Material of which constructed: Nos. 1, 3, 4, 5, 6, iron; No. 2, iron and wood.

Height above water, and depth of water under bridge:	Feet above	Water,
No. 1 No. 3 No. 4 No. 4	water. 18 18 714 64 4	feet deep.  15 8 4 6 10 15
How swung, by engine or hand power? Hand power.	,	
Approaches straight or curved? Nos. 1 and 2 curved, 8, 4, 5, 6, straight.		
Do you require all trains to some to full stop before crossing a draw, and how a Yes; flagged by watchmen.	ire they eign	alledf
Crossings,—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? South Haven & Rastern R. R. at Hartford. Michigan Central R. R. at Grand Junction. Lake Shore & Michigan Southern R. R. near Grandville. Grand Rapids & Indiana B. R. at Godfreys, Grand Bapids, Mill Creek and Traffint & Pere Marquette R. R. at Baldwin. Manistee & Grand Bapids R. R. at Canfield. Manistee & Luther R. R. at Peters. Manistee and North Bastern R. R. at Bear Creek, Manistee Crossing and Intelegrated & Betsey River R. R. at Henry. Ann Arbor R. R. at Thompsonville. Toledo, Saginaw and Muskegon R. R. at Muskegon and Sparts. Detroit, Grand Haven & Milwaukee R. R. at D. & M. Junction.		
What railroads cross your road either over or under your grade in this State, as Under:  M. C. R. R. 1% miles south New Buffalo.	feredw fa	
At what crossings are interlocking and derailing switches in operation?  S. H. & E. R. at Hartford  M. C. R. R. at Grand Junction.  L. S. & M. S. R'y near Grandville.  G. R. & I. at Godfrey's, Grand Rapids and Traverse City.  P. & P. M. R. R. at Baldwin.  M. & G. R. R. at Canfield.  M. & L. R. R. at Canfield.  M. & N. E. R. R. at Bear Creek, Manistes Crossing and Interlocken.  A. & R. R. R. at Henry.  A. A. R. R. at Thompsonville.  T. S. & M. R'y at Muskegon and Sparts.		
What pattern or patterns have you adopted? Allentown, Gravitt Union Switch & Signal Co., American Signal Co.		
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there estingment.  Number of crossings at which there are electric or automatic signals	ire gates of	654 30 1
Number of crossings of highways over or under railroad:		
Over 14, under 11.  Number of highway bridges 18 feet above track	************	13
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by act 174, session laws of 18 Yes.	881	
How are they treated?  Hart guards and blocked with plank.		
Stations.		100
Number of stations on whole lines		106 101

### Employés.

Number Same in	of persons regularly employ Michigan	yed on all roads operated	by company, includ	ing officials	1,474 1,419
Classify Baggs Brake Condo Engin Firem Labor Shopp	your employés as per follor gemen	wing list:			Number. 12 70 41 66 67 509 82 47 625
		REPAIRS AND RENEW	ALS.		
How mand Give the and Newa Total m	any miles of fencing have yo s number of miles required the counties in which need ygo, Oceana, Lake, Antrim illes required: 37.		des of your track i	n Michigan,	894
Average Average Number Number	r of track sections in Michig length of sections (miles). number of men in each sec of new ties put in whole li r of new ties put in track in number of new ties per mi	otion gang ne during the year Michigan		5.3	108 889, 278 825, 721 584
	•	Bridges and culve	rts.		
Timber With ir	cof trestle work replaced w culverts replaced during the on pipe	ne year			Number. 27 4 23 10
No.	Location.	Kind.	Material.	Month built	Feet in length.
38.2 116.7 132.5 141.8 142 375.9 A 13.9 A 30.1 A 57.7 B 23.7	New Buffalo New Richmond Zeeland Hudsonville Hudsonville South Petoskey North Hamilton North Holland Muskegon Fremont	Pile trestle Pile trestle Frame trestle	Wood	February September April July July September January June February January	11 80 120 11 12 15 74
		ROLLING STOCK		Number of	Present esti-
Numbe Numbe	r of locomotives of more th r of locomotives of 20 to 30 ( r of locomotives of 10 to 20 (	tons weight, exclusive of tons weight, exclusive of	tendertender	54 22 1	\$189,000 00 55,000 00 1,000 00
Numbe Numbe Numbe Numbe Numbe Other o paint log, 2	al  r of passenger cars—8-whee r of express and baggage or r of box freight cars r of stock cars r of platform cars r of onductors' way cars bars as follows: Tool, 5; er, 1; carpenter, 3; teader to	l, including official cars.  ITS  EXCAPATION OF THE PROPERTY O	er, 1; snow plows 1; store material	27 1,759 254 254 31 , 6; , 1; 45	\$245,000 00 \$115,000 00 40,500 00 439,750 00 6,250 00 180,930 00 7,900 00 \$1,041,550 00

•			
CHICAGO & WEST MICHIGAN RAILY	WAY (	COMPANY.	113
Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  Number of freight cars equipped with power brakes.  What patterns of power brakes have you in use, and number of locom Locomotives, Westinghouse.  Locomotives, New York Locomotives, American steam Locomotives, Nill Passenger, Westinghouse.  Freight, Westinghouse.	otives an	d cars with eac	55 55
Are your freight cars being equipped with automatic couplers as re of 1885, as amended by act No. 88, session laws of 1887? Yes.	equired b	y Act No. 147, s	ession laws
What pattern or patterns have you adopted for use? Gould Automatic.		•	
How are your passenger cars heated? Steam from locomotive:			
MILEAGE, TRAFFIC, ETC.			
Train mileage.		T-4 1 T-	. Wishins
Miles run by passenger trains during the year  Miles run by freight trains during the year  Miles run by mixed trains		Entire lines. In 793,985 751,468 64.144	746,902 706,901
Total mileage of trains earning revenue			1,453,808
Passenger traffic.—Entire lines.			
	Numbers	. Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	5,026 761,811	1	118,00.
Total number of passengers carried, earning revenue	766,837	†	
Number of passengers carried one mile Average distance carried Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers	24,972,288	32.565	\$0 69.728 01.004 02.178 02.141
Passenger traffic.—In State of Michig	jan.		
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	4,728 716,685		
Total number of passengers carried, earning revenue	721,363		
Number of passengers carried one mile	<b>24,391,</b> 431	30.634	
Average amount received from each passenger			\$0 65.588 00.944
Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers			02.049 02.014
Freight traffic movement.—Entire lin			
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	Tons. 22,375 1,152,352		Rate.
Total tons of freight carried, earning revenue	1,174,727		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight		89,982,136 92,595,201 119,020 78,042	
Average ton haul for all freight		78,823	\$0 84.553
Average receipts ton per mile, for through freight.  Average ton receipts per mile, for local freight.  Average receipts ton per mile, for all freight.			.860 01.079 01.078
18			

### Freight traffic.-In State of Michigan.

Freight trugic.—In State of Michig	J. G. 784.		
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 21,048 1,064,017	Miles.	Rate.
Total tons of freight carried, earning revenue	1,105,065	•	
Total mileage of through freight. Total mileage of local freight Total freight mileage or tons carried one mile. Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for through freight. Average receipts ton per mile, for local freight		74,141	\$0 79.539 00.809 01.015 01.009
Average receipts ton per mile, for all freight			01.008

### FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freigh	t tonnage.
Commonity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:	05 754	90.640	40,000	
Grain	25,754 15,019	20,643 2,718	46,897 17,737	3.90 1.51
Flour Other mill products	61	104	165	.01
Hay Fruit and vegetables	11,103 97,659	5,663 17,562	16,766 115,221	1.43 9.81
roducts of animals:				
Live stock	5,745 170	871 2,087	6,616 2,257	.50
Other packing house products	152	1,030		.10
Other packing house products Poultry, game and fish Wool Hides and leather	709	2	711	.00
<u>Wool</u>	122	68	190	.05
Hides and leather	4,933	4,190	9,123	. 78
roducts of mines:	}	40.505	40 707	
Anthracite coal	210	12,787 89,580	12,787 89,790	1.0 7.6
Bituminous coal Stone, sand and other like articles	42,308	1,136	43,444	3.7
Salt	106	9,274	9,380	.80
roducts of forest:	434,343	60,676	495,019	42.1
Lumber. Charcoal	15,233	7,330	22,563	1.9
fanufactures:				_
Petroleum and other oils	2,836 22,471	3,176 1,818	6,012 24,289	.5 2.0
Iron, pig and bloom		2,381	2,589	2.0
Other castings and machinery		749	1,651	.1
Bar and sheet metal	4	1,276	1,280	.1
Cement, brick and lime	31,519 535	3,585 768	35,104 1,303	2.9 .1
Agricultural implements	1,171	322	1.493	.1:
Wagons, carriages, tools, etc	2,394	3,120	5,514	.4
Household goods and furniture	24,421	1,685	26,106	2.2
Ierchandise	87,818	30,300	118,118	10.0
fiscellaneous: Other commodities not mentioned above	41,901	20,019	61,920	5.2
Total tonnage	469,807	304,920	1,174,727	100.0

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

### Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freigh	nt tonnage.
commonty.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	25,390	13,958	39,348	3.62
Flour Other mill products	14,650 61	2,614 92	17,264 158	1.59 .01
Hav	9,818	4,517	14.385	1.82
Hay Fruit and vegetables	97,657	17,478	115,135	10.61
roducts of animals:		700		
Live stock	5,740 169	768 2,029	6,508 2,198	.60 .20
Other packing house products	152	928	1,080	.20
Other packing house products Poultry, game and fish Wool	709	2	1,711	.07
Wool	122	l ű	166	
Hides and leather	4,875	8,492	8,367	.02 .77
roducts of mines:				
Anthracite coal		7,589	7,589	.70
Bituminous coal Stone, sand and other like articles	210 42,308	46,370 983	46,580 48,291	4.29 3.99
Salt	106	9,146	9,252	.85
roducts of forest:				
Lumber	484,080	55,006	489,086	45.06
Charcoal	15,233	6,977	22,210	2.05
fanufactures: Petroleum and other oils	2,808	1.615	4.423	.41
Iron nig and bloom	22.471	1,615 1,121	23,592	2.17
Iron and steel rails Other castings and machinery	208	1,543	1.751	.16
Other castings and machinery	884	628	1,512	.14
Bar and sheet metal	4	306	310	.08
Cement, brick and lime	31,327	2,229	33,556	3.09
Agricultural implements	362	473	835	.08
Wagons, carriages, tools, etc.	489 2,859	307 2,807	746 5.166	.07
Wines, liquors and beers	24,374	1,485	25,859	2.38
Merchandise	86,932	25,812	112,244	10.34
fiscellaneous:				
Other commodities not mentioned above	38,847	18,273	52,120	4.80
Total tonnage	862,295	223,092	1,085,387	100.00

### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. at an agreed rate; they handle their own freight at railway company's depot.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
1,741 miles. 1.470 miles of wire belong to the Western Union Telegraph Co.; 271 miles of wire belong to the C. & W. M. R'y on W. U. Tel. Co. poles.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### EILLED.

April 15, C. Events, citizen, Bellaire. Walking on track, struck by train.
October 29, Henry Lewis, citizen, Big Rapids Junction. Catching on moving train.
October 24, Mrs. Modrow, citizen, Lumberton. Walking on track at night, struck by hand car.
July 25, H. Tinkey, citizen, East Saugatuck. Boy playing on track, struck by train.
October 1, Frank Wilson, citizen, Pearl. Lying askep on track; intoxicated.

# INJURED.

February 26, John Bonga, citizen, Grand Rapida. Cars collided account breaking of brake chain. June 7, W. E. Bockes, citizen, Traverse City. Jumping on moving train April 20. Lena Costic, citizen, Bentou Harbor. Child playing on track April 13. Stephen Dykstra, citizen, Grand Haven Climbing between cars on siding. October 12, Leonard Eyke, citizen, Muskegon. Struck by engine at private crossing. October 12, James Frazer citizen, Muskegon. Struck by engine at private crossing. October 13, Andrew Hase, citizen, Watervliet. Driving on right of way, struck by train. June 9, James Knapp, brakeman, Watervliet. Driving on right of way, struck by train. September 4, Rich, Kimuo, citizen, St. Joseph. Boy climbing between cars. April 26, George Phelps, brakeman, Petoskey. Struck by fish-chute at side of track. March 7, Abram Streeter, citizen, Bellaire. Struck by train at crossing. April 30, Lucinda Steele, citizen, Watervliet. Alighting from moving train.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.					
	Passongers,	Employés.	Others.	Passengers,	Employée.	Others.
Collisions Coupling cars Getting on and off trains. Miscellaneous Overhead obstructions Prespassers on trains Prespassers on tracks.  Total	************	************	1	2	1	
Number of persons killed during the Number of persons injured during the Number of casualties purely accide Number resulting from lack of caus Persons killed or injured while juto Trespassers or tramps killed or injured.	the year the year ontal tion, careles	scess or mis	conduct			12 12 15 1

# KILLED OR INJURED IN MICHIGAN.

STATE OF MICHIGAN, } 88.

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Chicago and West Michigan Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. 6, OF E. R.]

Signed,

CHAS. M. REALD, U. B. BOGERS.

Subscribed and sworn to before me this 12th day of April, A. D. 1897, [L. S.]

HENRY J. BRODERION, Notary Public, Kent Co., Mich.

### ANNUAL REPORT

OF THE

# CHICAGO & NORTH MICHIGAN RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed April 14, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CHAS. M. HEALD, Grand Rapids, Mich. Secretary, GEO. F. WEIDMAN, Grand Rapids, Mich. Treasurer, F. H. DAMON, Boston, Mass. Transfer Agent, F. H. DAMON, Boston, Mass.

### DIRECTORS.

F. H. DAMON, Boston, Mass.
F. A. NIMS, Muskegon, Mich.
CHAS. M. HEALD, Grand Rapids, Mich.
WM. ALDEN SMITH, Grand Rapids, Mich.
U. B. ROGBES, Grand Rapids, Mich.
J. E. HOWAED, Grand Rapids, Mich.
GEO. F. WRIDMAN, Grand Rapids, Mich.
Terms expire April 21, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 2, 1891.

Number of stockholders at date of last election: 8.

Number of stockholders in Michigan at same date: 6.

Amount of full paid stock held in Michigan at same date: f69,000.00.

Date of annual meeting of stockholders: Third Wednesday in April.

Fiscal year of company ends December 31.

General offices of the company are located at Grand Rapids, Mich.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	1,500,000 00
Total amount paid in as per books of the company	810,000 00
Paid in per mile of road owned by company	8,746 07

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage on 92,613 miles of road, Traverse City to Elk Rapids to Bay View. Principal and interest guaranteed by the C. & W. M. By. Co.	. 5%	May 1, 1981	Boston, Mass	\$1,667,000 00

#### RECAPITULATION.

Total funded debt.  Total unfunded debt, included in C. & W. M. Ry. report.  Total debt liabilities.	1,867,000 00
Total amount of stock and debt	26,745 70
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year Was it paid for the last year? One-half cash, ½ C. & W. M. coupon scrip due in ten years	\$83,850 00
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by compa	ny.
Total expended for construction.  Average cost of construction per mile of road (not including sidings), 92.618 miles  Proportion of cost of construction for Michigan	\$1,809,880 04 19,542 85 1,809,880 04
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: July 15, 1892.	
Tarath completed in Michigan	
Length completed in Michigan:  Miles Traverse City to Bay View	
Total length completed	_ 79.021
Branches.	
From Williamsburg to Elk Rapids 9.51 From Cherrie to Ironton 4.08	
Total length of branches owned by company	- . 13.592
Total length of road belonging to this company in Michigan	92.618
Gauge of track, 4 feet 81/2 inches.	<del></del>

# STATE OF MICHIGAN, } ss.

COUNTY OF RENT,

Chas. M. Heald, president, and Geo. F. Weidman, secretary, of the Chicago & North Michigan Railroad
Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same,
declare them to be a true, full and correct statement of the stock, debt, and other matters as therein
contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their
knowledge and belief.

[L. S. OF E. E.]

CHAS. M. HEALD, President.

GEO. F. WEIDMAN, Secretary.

Subscribed and sworn to before me this 12th day of April, A. D. 1897.
[L. S.] HENRY J. BRODERICE, Notary Public, Kent County, Mich.

# ANNUAL REPORT

#### OF THE

# JACKSON & CINCINNATI RAILWAY COMPANY,

#### PART OF CINCINNATI, JACKSON & MACKINAW SYSTEM.

For the year ending December \$1, 1896.

[Filed May 11, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, F. B. DRAKE, Toledo, Ohio. Secretary, W. F. BOOTH, Toledo, Ohio.

#### DIRECTORS.

F. B. DEAKE, Toledo, Ohio.
B. A. HAYES, Toledo, Ohio.
ROBT. TUCKEE, Toledo, Ohio.
W. F. BOWTH, Toledo, Ohio.
F. B. SWAYNE, Toledo, Ohio.
Terms expire August 12, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 12, 1895. Number of stockholders at date of last election: 8. Date of annual meeting of stockholders: Second Thursday in August. Fiscal year of company ends June 30. General offices of the company are located at Toledo, Ohio.

#### REMARKS.

Leased to Frank B. Drake, receiver of the Cincinnati, Jackson & Mackinaw R'y, who takes all earnings and pays all expenses.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$16	90,000 00
Par value of shares\$100	•
Average price received per share 100	
No. of shares issued 1,600	
Amount paid in on common	80,000 00
Total amount paid in, as per books of the company 16	80,000 00
Amount paid in on common	9,065 15

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	Sept. 1, 1945	New York	\$300,000 00

#### RECAPITITIATION.

Total funded debt	\$300,000 00
Total debt liabilities	\$300,000 00
Amount of debt liabilities per mile of road, 17.65 miles	16,997 17 460,000 00 26,062 32
INTEREST ON THE FUNDED DEST.	
What is the amount of same due each year	15,000 00
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: April 26, 1896.	
MAIN LINE.	Miles.
Length completed in Michigan, Addison Junction to Jackson	17.65 17.65
BRANCHES.	
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan  Aggregate length of sidings, spurs and other tracks not above enumerated.  Same in Michigan.	17.65 17.65 1.28 1.26
Aggregate length of tracks belonging to this company, computed as single track.  Same in Michigan	18.91 18.91
Gauge of track, 4 feet 81/4 inches.	

STATE OF OHIO, SECOUNTY OF LUCAS,

F. B. Drake, president, and W. F. Booth, secretary, of the Jackson & Cincinnati Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

F. B. DRAKE, President. W. F. BOOTH, Secretary.

Subscribed and sworn to before me this 10th day of May, A. D. 1897.

B. H. HAYES, Notary Public, Lucas County, Ohio.

#### ANNUAL REPORT

OF THE

# CINCINNATI, JACKSON & MACKINAW RAILWAY COMPANY,

FRANK B. DRAKE, Receiver,

For the year ending December 81, 1896.

[Filed May 11, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CALVIN S. BRICE, New York.

Pice President, GEO. L. BRADBURY, Chicago, Ill.

Secretary and Treasurer, L. M. SCHWAN, New York.

Auditor, W. F. BOOTH, Toledo, Ohio.

General Manager, F. B. DRAKE, Toledo, Ohio.

Superintendent, J. B. FLANDERS, Toledo, Ohio.

Division Superintendent, W. F. BACCUS, Van Wert, Ohio.

Superintendent of Telegraph, FRANK ALLEN, Toledo, Ohio.

Cashier, O. A. WILSON, Toledó, Ohio.

General Passenger Agent, T. C. M. SCHINDLER, Toledo, Ohio.

General Freight Agent, C. W. COOK, Toledo, Ohio.

Attorney, SWAYNE, HAYES & TYLER, Toledo, Ohio.

Receiver, FRANK B. DRAKE, Toledo, Ohio.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: Receiver appointed December 6, 1894. Fiscal year of company ends June 30. General offices of the receiver are located at Toledo, Ohio.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation.		\$707,086 36
Total expenses including taxes	\$636,968 57	
Net income		\$70,117 79
Interest on unfunded debt	\$5,259 10 44,491 19	
Balance applicable to dividends		\$20,867 50
Balance for the year		\$20,867 50
Balance (profit and loss) last year		46,197 61
Balance forwarded to next year		\$66,565 1h

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

			<del></del>	<del></del>	
Class, character and date of	issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
Receivers' certificates, various da	tes in 1898	6%	Two years after date	New York	\$173,322 6
	υ	NFUNDED	DEBT.		
For what incurred.	Is t	he same t	o be funded or ho	w liquidated?	Amount.
For current balances					\$247,668 8
Total funded debtTotal unfunded debt		RECAPITUI			\$178,822 6 \$47,668 8
Total debt liabilities					
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road o	e of road	owned or	leased, 341.35 mile	8	1,233 31 420,991 45
Improvement account }			CE SHEET.—Dr.		
The Cincinnati, Jackson & Mac Suspense accounts.	kinaw R'y	Co		37,857 : 1,829 :	32
Cash items:		•		\$10,871	<b>\$344</b> ,647 23 58
Other assets: Materials and supplies Debit balances from companies Unearned insurance Cincinnati Northern B'y Co	and indivi	idnals		\$49,431 S	33
Total					\$500,707 20
10001					- 4000,101 2
Funded debt—receiver's certificat Destroyed car fund Unfunded debt; Interest unpaid	88			\$2,720 9	\$173,822 60 2,279 06
Vouchers and accounts Other liabilities: Accrued taxes				220,964 2	
Profit and loss or income account			· · · · · · · · · · · · · · · · · · ·		- 258,540 41 - 66,565 11
Total	• • • • • • • • • • • • • • • • • • • •				\$500,707 20
CHARGES AND	CREDIT	S TO PRO	PERTY DURIN	G THE YEAR.	-
Fytansions and new sidin-		MAIN L	NE.		841 070 A
Extensions and new sidings					11,193 22 21,020 14 6,978 45 47,679 82 47,102 30
Total					\$216,578 78
Total charges to property account Net addition to property account	as above.				• •

# ANALYSIS OF EARNINGS—IN STATE OF MICHIGAN.

PASSENGER EARNINGS.  Main line and branches:		
Local fares Through fares	\$69,660 29 7,719 06	
Total passenger fares	\$77,879 35	
Express and baggage	15,662 57 11,431 41	
Total passenger department earnings		\$104,473 33
Per train mile	<b>80 46</b> 556 81	
Main line and branches:		
Local traffic Through traffic	176,708 04 85,277 50	
Total traffic	\$211,985 54	
Total freight department earnings		211,985 54
Per train mile	<b>\$</b> 0 96 1,129 81	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
Main line and branches: Local fares Through fares	\$153,885 53 17,052 06	
Total passenger fares		
	•	
Express and baggage Maile	34,599 96 25,252 96	
Total passenger department earnings		\$230,790 51
Per train mile Per mile of road	\$0 46 556 81	
PREIGHT EARNINGS.		
Main line and branches: Local traffic. Through traffic.	390,363 17 77,931 02	
Total traffic	\$468,294 19	
Total freight department earnings		468,294 19
Per train mile	90 96 1,129 81	
Total transportation earnings, entire line Transportation earnings per mile of road, average 408.57 miles Transportation earnings per train mile	\$1,686 62 71	\$699,084 70
Miscellaneous receipts from operating account, other than for transportation.  From car mileage balance.  From other sources	as follows:	
Total		8,001 6
Total earnings from operation of road Total earnings per mile of road, average 408.57 miles Total earnings per train mile, 980,857 miles Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan		\$707,086 36
Total taxable earnings per mile of road in Michigan.	1,780 64	
Total income from all sources		\$707,086 36 320,081 00

## ANALYSIS OF EXPENSES.

## MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway Renewals of trails Renewals of trails Renewals of trails Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph Stationery and printing Total	\$73, 292 84 107 38 38,579 97 18, 262 14 5, 379 75 7, 965 77 1, 575 88 74 10
MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work care Repairs and renewals of shop, machinery and tools Stationery and printing  Total	\$9,707 08 \$7,567 23 10,510 38 42,991 65 558 13 1,921 77 341 50 \$103,597 64
	====
CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses. Switchmen, flagmen and watchmen Telegraph expenses. Station service Station supplies Switching charges—balance Car mileage—balance Loss and damage. Injuries to persons Clearing wrocks Advertising Outside agencies	\$18,616 S2 61,171 53 65,871 23 4,399 49 2,278 13 670 89 45,041 34 5,306 96 11,331 22 22,063 19 40,629 10 3,301 08 21,136 043 2,990 88 993 53 1,422 42 3,296 49
Commissions Rent of buildings and other property Stationery and printing Total	251 44 2,205 20 7,383 30 \$382,348 64
General Expenses.	
Salaries of general officers Salaries of cierks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes	\$9,813 40 9,090 35 3,253 07 658 50 4,721 97 1,191 44 690 88 81,365 35
Total	\$60,784 96
RECAPITULATION OF EXPENSES.  Per cent of	
Maintenance of way and structures. 22.02 Maintenance of equipment 52.18 Conducting transportation 52.18 General expenses, including taxes 9.54	\$140,237 33 103,597 64 382,348 64 60,784 96
Total operating expenses and taxes 100.00	\$636,968 57
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run for trains earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.	1,559 01 65 288,840 38
Total proportion of expenses for Michigan Per centage of expenses to earnings	\$288,840 38 171 68 07

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Dundee, Mich., to Allegan, Mich., November 29, 1883. From Addison Junction, Mich., to C. C. & St. L. Jet., Ohio, July 10, 1889.		
Leased: From Addison Junction, Mich., to Jackson, Mich., April 25, 1896. Branches:		
From Lewisburg, Ohio, to Quarries, 1887. From Germantown, Ohio, to Distillery, 1887.		
MAIN LINE.	Miles.	Miles.
In Michigan, from Dundes to Allegan In Michigan from Addison Junetion to State Line In Ohio from State Line to C. C. & St. L. Jet.	138 22.18 163.33	1
Total length completed		330.50
BRANCHIM.		
Euphemia from Lewisburg to Quarries	1.4 1.8	
Total length of branches owned by company		3.20
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above	155.18	828.70
enumerated	19.22	
Aggregate length of tracks in Michigan belonging to this company, computed track	as single	174.40
Gange of track, 4 feet 8% inches.		<del></del>
Proprietary or leased roads operated by this company.		
	al miles. I	In Michigan.
W. & L. E. R'y-Toledo to Manhattan Junction Ann Arbor R'y -Toledo to Dundee	2.1 22.9	17.00
J. & C. R'y Addison Junetion to Jackson	17.65	17 65
C. C. & St. L. R'y Franklin to Middletown	1.04 5.68	1.04
M. & C R'v - Muldistown to Haveman	10.51	
# 1 1	94 430	
C. L. & N R'y Hageman to Cincinnati B. & O, S W - East Norwood to Cincinnati	24.90 6.01	
B. & O. S. W. —East Norwood to Cinclusati		35.60
	6.01	35.60 190.87
Total miles operated by company	90.79 414.49 Number,	190.87 Aggregate length, foot.
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden	6.01 90.79 414.49 Number.	190.87 Aggregate length, foot. 144 59
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden	6.01 90.79 414.49 Number.	190.87 Aggregate length, foet. 144
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden	6.01 90.79 414.49 Number.	190.87 Aggregate length, foet. 144 59 15,990
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden  Iron Wooden trestles	6.01 90.79 414.49 Number. 1 177	190.87 Aggregate length, foot. 144 59 15,990
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden  Fron  Wooden trestles  Total  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?	6.01 90.79 414.49 Number. 1 177	190.87 Aggregate length, foot. 144 59 15,990
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden  From  Wooden trestles  Total  Crossings.—Ratiroad and Aighway.  What rathroads cross your road at grade in this State, and at what locality?  Wabash B. B. at Britton.  L. S. & M. S. R. B. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. B. at Homer and Battle Creek.  Chicago & Grand Trunk B. R. at Battle Creek.  Chicago, Kalamasoo & Saginaw R. R. at Kalamasoo Junction.	6.01 90.79 414.49 Number. 1 177	190.87 Aggregate length, foot. 144 59 15,990
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden  Iron.  Wooden trestles  Total  Crossings.—Ratiroad and highway.  What ratiroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago & Grand Trunk B. R. at Battle Creek.  Chicago, Kalamasoo & Saginaw R. R. at Kalamasoo Junction.  Grand Rapids and Indiana R. R. at Monteith.  What railroads cross your road either over or under your grade in this State, an	6.01 90.79 414.49 Number. 1 177 179	190.87 Aggregate length, foet. 144 59 15,990 16,198
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden Iron  Wooden trestles  Total  Crossings.—Radiroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago & Grand Trunk B. R. at Battle Creek.  Chicago, Kalamasoo & Saginaw R. R. at Kalamasoo Junction.  Grand Rapide and Indiana E. R. at Monteith.  What railroads cross your road either over or under your grade in this State, at Over:  L. S. & M. S. R. B. at Jerome and Hudson.	6.01 90.79 414.49 Number. 1 177 179	190.87 Aggregate length, foet. 144 59 15,990 16,198
Total miles operated by company  Number of bridges and tresties in Michigan.  Wooden  Iron.  Wooden tresties  Total.  Crossings.—Ratiroad and highway.  What ratiroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago & Grand Trunk R. R. at Battle Creek.  Chicago, Kalamasoo & Saginaw R. R. at Kalamasoo Junction.  Grand Rapide and Indiana R. R. at Monteith.  What ratiroads cross your road either over or under your grade in this State, as Over:	6.01 90.79 414.49 Number. 1 177 179	190.87 Aggregate length, foet. 144 59 15,990 16,198
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden Iron.  Total  Crossings.—Ratiroad and highway.  What ratiroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. B. & M. S. R. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago & Grand Trunk E. R. at Battle Creek.  Chicago, Kalamasco & Saginaw R. R. at Kalamasco Junction.  Grand Rapids and Indiana R. R. at Monteith.  What ratiroads cross your road either over or under your grade in this State, at Over:  L. B. & M. S. R. B. at Jerome and Hudson.  Under:  Michigan Central R. R. at Augusta.	6.01 90.79 414.49 Number. 1 177 179	190.87 Aggregate length, foet. 144 59 15,990 16,198
Total miles operated by company  Number of bridges and trestles in Michigan.  Wooden  Iron.  Wooden trestles  Total.  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Wabash R. R. at Britton.  L. S. & M. S. R. R. at Tecumseh, Hanover, Homer and Allegan.  Michigan Central R. R. at Homer and Battle Creek.  Chicago, Kalamasco & Saginaw R. R. at Kalamasco Junction.  Grand Rapids and Indiana E. E. at Monteith.  What railroads cross your road alther over or under your grade in this State, at Over:  L. S. & M. S. R. B. at Jerome and Hudson.  Under:  Michigan Central R. R., at Augusta.  L. S. & M. S. R. B. at Woodstock.  At what crossings are interlocking and derailing switches in operation?  Chicago, Kalamasco & Saginaw R'y at Kalamasco Junction.  Michigan Central R'y at Sattle Creek and Homer.	6.01 90.79 414.49 Number. 1 177 179	190.87 Aggregate length, foet. 144 59 15,990 16,198

Number of crossings of highways over or under railroad: over, 2; under, 6		. 8
Are your frogs and guard rails blocked as required by act 174, session laws of 18 Yes.	83.	
How are they treated?		
Wooden blocks. Stations.		
Number of stations on whole line		93 37
Employés.		
Number of persons regularly employed on all roads operated by company, officials  Same in Michigan		817 299
Classify your employés as per following list:		Number.
Baggagemen		12
Brakemen		51 26
Engineers		33
Firemen Laborers		33 245
Shopmen		186
YardmenOthers		5 226
Vanda 0		
REPAIRS AND RENEWALS.		
Fencing in Michigan.		000.00
How many miles of fencing have you		330.87
Give the number of miles required to complete fence both sides of your trac- counties in which needed: Lenawee county, 1 11-100 miles.	ek in Michig	an, and the
Road bed and track.		
Number of track sections in Michigan		27
Average length of sections, miles.  Average number of men in each section gang.	6 4-10	3
Number of new ties put in whole line during the year	<b></b>	112,318
Number of new ties put in track in Michigan  Average number of new ties per mile of road		37,370 329
New rails put in track: Steel (tons 343.365) miles.	3.774	
	0.111	
Bridges and culverts.		
Amount of trestle work replaced with earth during the year (linear feet)  Timber culverts replaced during the year		1,473 5
With iron pipe,—number With sewer pipe,—number		1
With sever pipe,—number		
DOLLING STOOK		
ROLLING STOCK.		Present esti-
Name to add to a second or add to a second to the second of the second o		nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender  Number of locomotives of 20 to 30 tons weight, exclusive of tender	33	\$99,000 00 2,000 00
Total	34	\$101,000 00
Number of passenger cars—12-wheel, including official cars	1 25	\$2,000 00 49,000 00
Number of express and baggage cars	. 6	7,200 00
Number of box freight cars	1,044 18	208,800 00 1,800 00
Number of stock cars Number of platform cars	231	29,150 00
Number of coal cars. Number of conductors' way cars	111 14	16,650 00 5,600 00
Other cars as follows:		•
Steam shovels	2 1	4,000 00 1,500 00
Total	1,453	\$325,700 00
Number of lesemetives conjuned with names bester		34
Number of locomotives equipped with power brakes		31

Entire lines. In Michigan.

What patterns of power brakes have you in use, and number of locomotives and cars with each? New York air, 12 locomotives, 8 cars. Westinghouse air, 10 locomotives, 23 cars. Exames vacuum, 2 locomotives.

American steam, 10 locomotives.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Janney.

How are your passenger cars heated? Steam, 30; Baker heater, 1.

#### MILEAGE, TRAFFIC, ETC.

#### Train mileage.

	Entire mas.	in michigan.
Miles run by passenger trains during the year. Miles run by freight trains during the year Miles run by mixed trains.	. 401,623	210,668 181,805 <b>51,542</b>
Total mileage of trains earning revenue	980,857	444,010
Passenger traffic.—Entire lines.		
Number of through passengers carried, earning revenue	2	Rate.
Total number of passengers carried, earning revenue 334,07	3	
Number of passengers carried one mile 8,812,47 Average distance carried	26.38	<b>60 F1 45</b>
Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers		\$0 51.17 02.08 01.98 01.94
Passenger traffic.—In State of Michigan		
Number of through passengers carried, earning revenue 7,57 Number of local passengers carried, earning revenue 143,64		
Total number of passengers carried, earning revenue 151,22	- 6	
Number of passengers carried one mile	26.38	\$0 51.17 02.08 01.93 01.94
Freight traffic.—Entire lines.		
Tons		Rate.
Number of tons of through freight carried, earning revenue 135,88 Number of tons of local freight carried, earning revenue 519,97		
Total tons of freight carried earning revenue	8	
Total mileage of through freight	53,018,589 65,717,675 93.5	
Average ton haul for all freight.  Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average receipts ton per mile, for local freight.  Average receipts ton per mile for all freight.		\$0 71 00.614 00.736 00.713

## Freight traffic.—In State of Michigan.

Number of tons of through freight carried, earning revenue 61,510 Number of tons of local freight carried, earning revenue 235,831		
Total tons of freight carried, earning revenue 295,891		
Total mileage of through freight 5,744 Total mileage of local freight 24,000 Total freight mileage or tone carried one mile 29,744 Average ton haul for through freight 29,744 Average ton haul for all freight 29,744 Average amount received for each ton haul 29,744 Average receipts ton per mile, for through freight 29,744 Average receipts ton per mile for local freight 29,744 Average receipts ton per mile for local freight 29,744	0,243 8,814 98.5 102.0 100.2	\$0 71 00.614 00.736
Average receipts ton per mile, for all freight.		00.713

#### FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

## Company's material excluded.

a	Freight	Freight received from connecting	Total freight tonnage.	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	46,928	6,920	53,848	8.21
Flour	3,404	1,798	4,197	. 79
Other mill products		1,444	4,477	.68
Hay		1,561	28,543	4.35
Tobacco	3,849	2,319	6,168	.94
Cotton		915	915	.14
Cotton Fruit and vegetables	4,900	4,390	9,290	1.42
Products of animals:	40.000			
Live stock	13,362	491	13,853	2.11
Dressed meats.	36	39	75	.01
Other packing house products	1,240	4,666	6,906	.90
Poultry, game and fish	585	45	630	.10
Wool	283	14	297	.05
Orsseed meats. Other packing house products Poultry, game and fish Wool Hides and leather	125	44	169	.03
Products of mines:				
Anthracite coal Bituminous coal	851	23,253	23,604	8.60
Bituminous coal	2,692	246,982	249,674	38.07
Coke	8	717	720	.11
Ores Stone, sand, and other like articles		17	17	.00
Stone, sand, and other like articles	17,106	4,828	21,934	3.34
Salt	201	2,255	2,456	87
Products of forest:				
Lumber	12,754	83,528	46,282	7.06
Other than lumber	30,877	9,078	39,955	6.09
Manufactures: Petroleum and other oils	0.000	4 500		
	2,088	4,720	6,808	1.04
Sugar	816	8,883	4,649	.70 2.75
iron, pig and bloom	301	17,714	18,015	
Iron and steel rails	108	1,131	1,239	19
Other castings and machinery	4,737	8,575	13,812	2.03
Cement, brick and lime	879	8,068	8,947	1.36
Agricultural implements	370	1,137	1,507	.23
Wagons, carriages, tools, etc. Wines, liquors and beers	556	262	818	.13
Wines, liquors and beers	4,090	1,707	5,797	.88
Household goods and furniture	1,457	1,477	2,934	.45
Merchandise	11,066	10,214	21,280	3.25
Ice	22,384	125	22,509	3.43
Miscellaneous: Other commodities not mentioned above	9,150	24,883	34,033	5.19
Total tonnage	226,713	429,145	655,858	100.00

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
(Frain	21,248	8,188	24,876	8.21	
Flour	1,541	812	2,353	.79	
Other mill products	1,378	653	2,026	.68	
Hay	12,214	706	12,920	4.85	
Tobacco	1,742	1,050	2,792	.94	
CottonFruit and vegetables	2,218	1,987	414 4,205	.14 1.42	
Products of animals:					
Live stock	6,049	222	6,271	2.11	
Dressed meats	16	18	34	.01	
Other packing house products Poultry, game and fish	561	2,112	2,678	.90	
Poultry, game and nah	266	20	286	.10	
Wool Hides and leather	128 57	6 20	134 77	.05 .08	
Products of mines:				,	
Anthracite coal	159	10.526	10.685	3.60	
Bituminous coal.	1,219	111,803	113,022	88.07	
Coke	1 1	824	825	.11	
Ores Stone, sand, and other like articles. Salt	<b></b>	8	8		
Stone, sand, and other like articles	7,743	2,186	9,929	3.34	
Salt	91	1,021	1,112	.87	
Products of forest:	5,773	15.177	20,950	7.06	
LumberOther than lumber	13,977	4,109	18,686	6.09	
Manufactures:					
Petroleum and other oils	945	2,187	3,082	1.04	
Sugar	369	1,735	2,104	.70 2.75	
Iron, pig and bloom	136 49	8,019 512	8,155 561	2.75 .19	
Other castings and machinery	2,144	3,882	6.026	2.03	
Cement, brick and lime	398	3,650	4,048	1.86	
Agricultural implements	168	515	683	.28	
Wagons, carriages, tools, etc.	252	119	371	.13	
Wines, liquors and beers	1,851	778	2,624	.88	
Wagons, carriages, tools, etc	660	659	1,829	.45.	
Merchandise	5,009	4,625	9,634	8.25	
Miscellaneous:			10 100	0.40	
Ice Other commodities not mentioned above	10,133 4,142	11,263	10,190 15,405	3. <b>43</b> 5.1 <b>9</b>	
Total tonnage.	102,627	194,263	296,890	100.00	

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Fixed sum per month. General express business. Freight taken at depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? \$38.15 miles; Western Union Telegraph Company.

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago, Ill., mileage.....

\$148 67

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

August 31, Mrs. M. L. Turner, Res. Stepped in front of engine; carelessness.

#### INJURED.

January 4, A. M. West, brakeman, near Eckford. Fell from car; carelessness. November 9, W. H. Smith, unknown, Marehall. Walking on track; trespassing. December 1, H. G. Williamson, unknown, Jackson. Highway collision; accidental. December 21, Wm. Glynn, brakeman, Addison. Coupling; carelessness.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.		Injured.		
	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Collisions Falling from trains Trespassers on tracks			1		1 1	1 1
Total			1		2	2

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	4
Number of casualties purely accidental  Number resulting from lack of caution, carelessness or misconduct	1
Trespassers and tramps killed or injured	1

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen Not classified above	i	2 2	2 3
Total	1	4	5

STATE OF OHIO, \ COUNTY OF LUCAS, \ 88.

Frank B. Drake, receiver, and W. F. Booth, auditor, of the Cincinnati, Jackson and Mackinaw Railway being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. R.]

FRANK B. DRAKE, Receiver. W. F. BOOTH, Auditor.

Subscribed and sworn to before me this 10th day of May, A. D. 1897. [L. S.]

B. A. HAYES.
Notary Public, Lucas County, Ohio.

#### ANNUAL REPORT

OF THE

# CINCINNATI, SAGINAW & MACKINAW RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. W. WRIGHT, Alma, Michigan. Vice President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Secretary and Treasurer, JAMES H. MUIR, Detroit, Michigan. General Superintendent F. H. McQUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Michigan. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HERBERT ROBERTS, Fort Gratiot, Michigan. Master Car Builder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant General Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec. First Assistant General Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

#### DIRECTORS.

A. W. WRIGHT, Alma, Michigan. CHARLES M. HAYS, Montreal, Province of Quebec. W. R. Buet, Saginaw, Michigan.

G. M. STARK, Saginaw, Michigan.

E. W. MEDDAUGH, Detroit, Michigan.

A. B. ATWATER, Detroit, Michigan.

S. O. FISHER, West Bay City, Michigan.

Terms expire April 15, 1897, or when successors are appointed.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 30, 1889 (dated December 28, 1889). Number of stockholders at date of last election: 11. Number of atockholders in Michigan at same date: 8. Amount of full paid stock held in Michigan at same date: \$676,500. Date of annual meeting of stockholders: The day after the second Wednesday in April. Fiscal year of company ends December 31. General offices of the company are located at Detroit and Saginaw (E. S.), Michigan.

		NERAL E			Debit.	Credit.
Total expenses, including taxes					\$124,247 06	\$128,855 35
Net income						\$4,608 29
Interest on funded debt					86,250 00	
Balance for the year Balance (loss) from December 31, Items not included in above, as fo Advances by the Chicago & Gran Trunk Railway Company of Ca	llows: d Trunk l nada, un	Railway C der traffic	ompany and the dagreement, dated	Grand Octo-	\$81,641 71 46,033 44	
ber 2, 1890 Balance forward to next year						57,855 28 69,869 87
					\$127,725 15	
	ANALYSI	S OF CA	PITAL STOCK.			
Amount authorized by charter or	articles of	associati	on			\$5,000,000 00
Amount authorized by charter or Par value of shares			15,000	\$100 OU	H 500 000 00	
Total amount paid in, as per b						
Paid in per mile of road owned by						28,301 89
•	ANALYSI		BT ACCOUNTS.			
		FUNDED	DEBT.			
Class, character and date of i	ssue.	Rate of interest.	When due.	When	payable.	Amount outstanding.
First mortgage bonds, issued 1st	January,	5× .	1st Jan. 1920	New Y	ork	\$1,725,000 00
	,	UNFUNDED	DEBT.			
For what incurred.	Is t	he same to	o be funded or ho	w liquid	lated.	Amount.
For miscellaneous						\$279,924 51
	1	RECAPITUL	ATION.			
Total funded debtTotal unfunded debt						\$1,725,000 00 279,924 51
Total debt liabilities						\$2,004,924 51
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road, !	e of road,	53 miles				37,828 76 8,504,924 51 66,130 65
G	ENERAL	BALANC	E SHEET.—Dr.			
Construction and equipment accordant items:	unt					\$3,228,827 58
CashDue from agents					\$83,075 69 3,810 75	
Other assets: Debit balances from companies Chicago & Grand Trunk Railwa inaw railroad interest coupon	and indiv	riduals	innati, Saginaw &	Mack-		96,886 44 9,016 36
traffic agreement. Grand Trunk Railroad Compan	of Cana	da for dit	to.	andor	\$108,452 94 51,871 82	
Loss or income account						160,324 26 69,869 87
Total						\$3,504,924 51

## GENERAL BALANCE SHEET.-Cr.

GENERAL DALIANCE SHEET.—CR.		
Capital stock Funded debt.	1,500,000 00 1,725,000 00	
Unfunded debt:	\$69,869 87	\$3,225,000 00
Vouchers and accounts.  Other liabilities (list as follows): Chicago & Grand Trunk Railway Co. for advances under traffic agreement.	49,730 88 108,452 94	
Chicago & Grand Trunk Railway Co. for advances under traffic agreement. Grand Trunk Railway Co. of Canada, ditto.	51,871 82	279,924 51
Total		\$8,504,924 51
COST OF ROAD AND EQUIPMENT.		
PURCHASED BY PRESENT COMPANY.	•	•
When purchased: 1st November, 1890. Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment		\$3,180,000 00 46,067 58 2,760 00
Total cost to date of report		•
Average cost per mile of road (not including sidings), 58 miles  Proportion of cost for Michigan		8,228,827 58
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
MAIN LINE.		
Extensions and new sidings. New buildings		\$8,955 61 1,452 71
Total		\$10,408 32
Total charges to property account as above		10,408 32 10,408 32
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MIC	CHIGAN.	
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MIC	CHIGAN.	
	S27,230 22 7,422 99	
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares Total passenger fares.	\$27,290 22 7,422 99 \$34,653 21	
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails	\$27,230 23 7,422 99 \$34,653 21 1,869 87 4,166 83	
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails  Total passenger department earnings	\$27,280 22 7,422 99 \$34,653 21 1,869 87 4,166 83	<b>\$4</b> 0,689 <b>4</b> 1
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails	\$27,230 23 7,422 99 \$34,653 21 1,869 87 4,166 83	<b>84</b> 0,68 <b>9 4</b> 1
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails  Total passenger department earnings	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33	<b>\$4</b> 0,68 <b>9 41</b>
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails  Total passenger department earnings  Per train mile Per mile of road.	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33	<b>\$4</b> 0,68 <b>9 41</b>
PASSENGER EARNINGS.  Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails  Total passenger department earnings  Per train mile.  Per mile of road.  FREIGHT EARNINGS.	\$27,230 22 7,422 99 \$34,653 21 1,969 87 4,166 83 \$0 62 767 72	<b>84</b> 0,689 <b>4</b> 1
Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails.  Total passenger department earnings  Per train mile. Per mile of road.  FREIGHT BARNINGS.  Main line and branches: Local traffic. Total traffic.  Total traffic.  Total freight department earnings	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 83 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21	\$40,689 41 87,688 21
Main line and branches: Local fares Through fares Total passenger fares.  Express and baggage Mails  Total passenger department earnings  Per train mile. Per mile of road.  Main line and branches: Local traffic Through traffic.  Total traffic.  Total freight department earnings.  Per train mile.	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,658 21 \$2 03 1,654 49	87,688 21
Main line and branches: Local fares Through fares  Total passenger fares.  Express and baggage Mails.  Total passenger department earnings  Per train mile. Per mile of road.  Main line and branches: Local traffic. Through traffic.  Total traffic.  Total freight department earnings.  Per train mile. Per mile of road.	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,186 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21	
Main line and branches: Local fares Through fares Total passenger fares.  Express and baggage Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  FREIGHT BARNINGS.  Main line and branches: Local traffic. Through traffic.  Total traffic.  Total freight department earnings.  Per train mile. Per mile of road.  Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile. Miscellaneous receipts from operating account, other than for transportation, as follows:	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 33 \$0 62 767 72 \$63,757 01 23,931 20 \$87,658 21 \$2 03 1,654 49	87,688 21
Main line and branches: Local fares Through fares Total passenger fares.  Express and baggage. Mails Total passenger department earnings  Per train mile. Per mile of road.  FREIGHT BARNINGS.  Main line and branches: Local traffic. Through traffic.  Total freight department earnings.  Per train mile. Per mile of road.  Total traffic.  Total traffic.  Total freight department earnings.  Per train mile. Per mile of road.  Total transportation earnings per mile of road.	\$27,230 22 7,422 99 \$34,653 21 1,869 87 4,166 83 \$0 62 767 72 \$63,757 01 23,931 20 \$87,688 21 \$2 03 1,654 49	87,688 21

Total earnings from operation of road	\$128,855 <b>35</b>
Proportion of taxable earnings for Michigan	128,855 35
Total taxable earnings per mile of road in Michigan	2,431 23
Total earnings per mile of road \$2,481 23 Total earnings per train mile 1 18 Proportion of taxable earnings for Michigan 1 18 Total taxable earnings per mile of road in Michigan 1 Total income from all sources 1 Proportion of income for Michigan 1	128,855 35 2,431 23 128,855 35 128,855 35
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$15,385 53 450 00
Renewals of rails	9,885 45
Repairs and renewals of bridges and culverts	2,354 81 568 92
Repairs and renewals of buildings and fixtures	1,817 87
Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves  Stationery and printing.	726 86 54 06
Total	\$30,742 50
MAINTENANCE OF EQUIPMENT.	<b>6000</b> 40
Superintendence. Repairs and renewals of locomotives	\$390 48 8,518 75
Repairs and renewals of passenger cars.	5,761 18 3,788 48
Repairs and renewals of work cars	50 00
Stationery and printing.	460 68 78 40
Repairs and renewals of passenger cars Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	120 73
Total	\$19,103 60
CONDUCTING TRANSPORTATION.	
Superintendence	\$3,210 20
Superintendence Engine and roundhouse men	14,808 71
Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train service.	9,587 08 676 08
Oil, tallow and waste for locomotives Train service	574 71 4,800 78
Train supplies and expenses Switchmen, flagmen and watchmen	1,677 10
Telegraph expenses	10,151 82 2,195 12
Station service Station supplies	13,915 93 1,512 04
Car mileage—balance Loss and damage	2,000 97
Loss and damage	272 86 157 84
Advertising Outside agencies	384 66 1,385 30
Commissions	219 08
Stationery and printing	769 32
Total	\$68,299 05 ———
GENERAL EXPENSES.	
Salaries of general officers Salaries of clerks and attendants	\$433 66 850 21
General office expenses and supplies	600 17
Insurance Law expenses	715 93 644 44
Law expenses Stationery and printing (general offices) Taxes	82 50 2,775 00
Total	\$6,101 91
RECAPITULATION OF EXPENSES.  Per cent of	
expenses.	<b>400</b> 740 50
Maintenance of way and structures 24.74 Maintenance of equipment 15.38	\$30,742 50 19,103 60
Conducting transportation 54.97 General expenses, including taxes 4.91	19,103 60 68,299 05 6,101 91
Total operating expenses and taxes. 100.00	\$124,247 06

CINCINNATI, SAGINAW & MACKINAW RAILWAY	COMPA	NY. 135
Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenu 109.048 miles Proportion of operating expenses and taxes for Michigan, main line	114	\$124,247 O6
		<del></del>
Total proportion of expenses for Michigan  Percentage of expenses to earnings, 96.42.  Not earnings per mile of road		\$124,247 06 86 95
Net earnings per train mile	04	
DESCRIPTION OF ROAD.		•
Date when the road was opened for use between its present termini: From Durand, Michigan, to West Bay City, Michigan, 11th January, 1890.		
MAIN LINE.		Miles.
In Michigan, from Durand to West Bay City		53.00
Total length completed	53.00	58.00
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	32.64	
Aggregate length of tracks in Michigan belonging to this company, compute track	d as single	85. <b>64</b>
Gauge of track, 4 feet 8½ inches.		
Number of bridges and trestles in Michigan.		A
	Number.	Aggregate length, feet.
Wooden bridgesIron bridges	1 3	299 92
Combination bridges	2 30	281 3,508
Total		4,180
Draw bridget in Michigan.		
How many on your line? Three,		
Where located, when built and length of draw span? One at Saginaw river, built in 1829; length of draw span, 194 feet. One two miles north of Batcheldor's, built in 1829, 88 feet long. One three miles south of West Bay City, built in 1829, 88 feet long.		
Character of structure? Truss.		
Material of which constructed. One stone and iron, 2 of wood.		
Height above water, and depth of water under bridge. 20 feet and 12 feet respectively.		
How swung, by engine or hand power? Hand power.		
Approaches straight or curved? Curved.		
Do you require all trains to come to fall stop before crossing a draw, and how Yes. Signaled by semaphores.	are they si	gnaiedī
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R. at Maple street, Saginaw, E. S.; at South Saginaw, E. S. (Dead line); at north of river bridge, Saginaw, E. S.; and at Michigan Central R. R. at Emerson street, Saginaw, E. S.; at north of river at Saginaw, E. S. (Wright's spur); and at Lafayette and Hart streets, Wes	Saginaw (B Mershon's, bridge, Sagi t Bay City.	elt line); at naw, E. S.;
At what crossings are interlocking and derailing switches in overation? Three at Saginaw, E. S.; 3 at Saginaw, W. S.; 1 at Saginaw, S. S.; 1 at Mersh	omin . 9 at W	est Bay City.
	ULB; Z AL W	
What pattern or patterns have you adopted? Union Switch & Signal Company's.	OH 8; 2 & C W	
What pattern or patterns have you adopted? Union Switch & Signal Company's.  Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates		96

How are your passenger cars heated? Baker heater (hot water).

Are your frogs and guard rails blocked as required by act 174, session laws of 18 Yes.	8837	
How are they treated? Plank blocking. Stations.		
Number of stations on whole lines		21 21
-		===
Employés.		
Number of persons regularly employed on all roads operated by company officials Same in Michigan Classify your employés as per following list: Baggagemen Brakemen Conductors Engineers Firemen		124 124 Number. 1 5 2 6 7 37 5 8 8
LaborersShopmen		37 5
Yardmen Others		53 53
•		====
REPAIRS AND RENEWALS.		
There has been been a second		
Fencing in Michigan.  How many miles of fencing have you!		116
now many mass of tenering have you.		
Road bed and track.  Number of track sections in Michigan		8 6% 4 83,121 83,121 389
•		
ROLLING STOCK.	•	
Number of locomotives of more than 30 tons weight, exclusive of tender	Number. n	resent esti- ated value. \$30,000 00
Total	6	\$30,000 00
Number of passenger cars—12-wheel, including official cars Number of passenger cars—8-wheel, including official cars Number of express and baggage cars Number of express and baggage cars Number of platform cars Number of conductors' way cars Other cars	11 12 20 65 2	\$3,500 00 30,000 00 3,600 00 11,550 00 13,520 00 1,600 00 E00 00
Total :	112	\$64,570 00
Number of locomotives equipped with power brakes		6 14 1
What patterns of power brakes have you in use, and number of locomotives an Locomotives with Westinghouse air brake, 3; locomotives with Eames' air brake, 15.		
Are your freight care being equipped with automatic couplers as required by a of 1885, as amended by act No. 88, session laws of 1887; Yes.	ct No. 147, s	ession laws
What pattern or patterns have you adopted for use? Gould and Janney.		

# CINCINNATI, SAGINAW & MÁCKINAW RAILWAY COMPANY. 137

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. 1	in Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains	65,021 40,466 3,561	65,021 40,466 3,561
Total mileage of trains earning revenue.	109,048	109,048
Passenger traffic.—Road all in State of Michigan.		
Number	. Miles.	Rate.
Number of through passengers carried, earning revenue		
Total number of passengers carried, earning revenue 64,222		
Number of passengers carried one mile	24.4	\$0 53.96 01.95 02.29
Average receipts per passenger per mile for all passengers		02.21
Freight traffic.—Road all in State of Michigan	•	
Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue		
Total tons of freight carried, earning revenue		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight	8,192,675 5,819,777 58.0	
Average ton haul for all freight	36.7	
Average amount received for each ton haul		\$0 60.42 01.13 02.00 01.65

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigh	t tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.	4,183	1,982	6,165	4.25
Flour Other mill products	1,262 281	102	1,364 281	.94 .19
Hav	5.936	57	5.993	4.18
Tobacco	1	Į Š	8	.01
CottonFruit and vegetables		48	48	.03
Fruit and vegetables.	1,281	290	1,571	1.08
Potatoes	180		180	.12
Products of animals:				
Live stock	1,174	108	1,282	.88
Dressed meats.	32	420	452	.31
Other packing house products Poultry, game and fish	245 806		245	.17
Wool	52		80 <b>6</b> 52	.56 .04
Wool Hides and leather	28	115	143	.10
Products of mines:				
Anthracite coal	487	678	1.165	.80
Bituminous coal	1.860	1.672	8,582	.80 2.43
Anthracite coal Bituminous coal Stone, sand and other like articles. Salt	12,685	2,129	14,814	10.21
Salt	20,160	144	20,804	18.99
roducts of forest:				
Lumber	58,720	2,775	61,495	42.87
Logs.	975	202	1,177	.81 2.82
Shingles	2,082	2,009	4,091	2.82
fanufactures:			_,	
Petroleum and other oils		54 743	54 743	.04 .51
SugarNaval stores		81	1 81	.08
Iron, pig and bloom	251	127	378	.28
Iron and steel rails	436	1.448	1,882	1.80
Other castings and machinery	381	596	927	.64
Cement, brick and lime	1,387	180	1,567	1.08
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers		200	200	.14
Wines licrors and boars	48	60 114	60 162	.01
Household goods and furniture	148	171	319	.22
Merchandise	3,807	4,252	8,039	5.55
fiscellaneous:				
Other commodities not mentioned above	<b>3,9</b> 68	1,541	5,529	3.81
Total tonnage	122,826	22,303	145,129	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

what kind of business is done by them, and do you take their freights at the depot, or at the once of such express companies?

The National Express Company pays one and a half times the company's local first-class freight rates on all local merchandise; and for all produce and through business one and a fourth times the company's local first-class freight rates. The railway company takes freight at depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
Fifty-eight miles of wire belonging to the Cincinnati, Saginaw and Mackinaw R. R. Co.

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have during the year been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Wagner Palace Car Co., New York, N. Y. (allowed mileage) \$2 34

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid	d.
Armour Car Lines. American Refrigerator Transit Co.	St. Louis, Mo.	\$6	18 29 58
Burton Stock Car Co. Chicago, Boston & Liverpool Refrigerator Line Chicago Refrigerator Car Line Commerce Despatch Line	Chicago, Ill.	99 6	59 29 67
Excelsior Horse Car Line.  Havens & Co., C. B.  Ricks' Stock Car Co.  International Fruit Dealers' Despatch.  I. E. B. Furniture Line.  Kansas City Dressed Beef Line.	Omaha, Neb. Chicago, Ill. Chicago, Ill.	1	62 32 64 90 10 78
Keystone Palace Horse Car Co.  Merchants' Despatch Transportation Co.  Morris Coal and Transportation Co.  National Despatch Line  New York Despatch Refrigerator Line	New York, N. Y.	10 1 318	19 88
New England Car Co. St. Louis Refrigerator Car Co. Southern Despatch Lumber Line Switt Refrigerator Line. Union Refrigerator Transit Co.	Chicago, III	14	46 59 47 15 39
Total		\$628	 35

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

March 7, 1896, Peter Moim, citizen, Salzburg. Highway crossing. Inquest-"His carelessness."

# STATE OF MICHIGAN, 388.

Almon B. Atwater, superintendent, and James H. Muir, secretary and treasurer, of the Cincinnati, Saginaw & Mackinaw Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

A. B. ATWATER, Superintendent, JAS. H. MUIR, Secretary and Treasurer. Signed,

Subscribed and sworn to before me this 26th day of March, A. D. 1897.

LAWRENCE F. LANG, Notary Public, Wayne County, Mich.

#### ANNUAL REPORT

OF THE

# CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, M. E. INGALLS, Cincinnati, Ohio.
Vice President, J. D. LAYNG, New York.
Secretary, E. F. OSBORN, Cincinnati, Ohio.
Auditor, P. A. HEWITT, Cincinnati, Ohio.
Treasurer, C. F. COX, New York.
General Manager, C. E. SCHAFF, Cincinnati, Ohio.
General Superintendent, J. Q. VAN WINKLE, Indianapolis, Ind.
Division Superintendent, S. T. BLIZARD (Michigan Div.), Wabash, Ind.
Chief Engineer, G. W. KITTREDGE, Cincinnati, Ohio.
Superintendent of Telegraph, C. S. RHOADS, Indianapolis, Ind.
Local Treasurer, F. D. COMSTOCK, Cincinnati, Ohio.
General Passenger Agent, D. B. MARTIN, Cincinnati, Ohio.
General Freight Agent, E. F. COST, Cincinnati, Ohio.
Attorney (General Counsel), JOHN T. DYE, Indianapolis, Ind.

#### DIRECTORS.

C. VANDERBILT, New York. W. K. VANDERBILT, New York. C. M. DEPEW, New York. J. P. MORGAN, New York. M. E. INGALLS, Cincinnati, Ohio. Terms expire October, 1897. JAMES BARNETT, Cleveland, Ohio. ALEX. McDonold, Cincinnati, Ohio. GEO. A. FARLOW, Boston, Mass. Terms expire October, 1898. GEO. T. BLISS, New York. H. McK. Twombly, New York. J. D. LAYNG, New York. F. W. VANDERBILT, New York. W. P. ANDERSON, Westerly, R. I. Terms expire October, 1899.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: Consolidated as C., C., C. & St. Louis R'y Co., June 27, 1889.

Number of stockholders at date of last election: 2,642.

Number of stockholders in Michigan at same date: 6.

Amount of full paid stock held in Michigan at same date: 178 shares.

Date of annual meeting of stockholders: Last Wednesday in October.

Fiscal year of company ends June 30.

General offices of the company are located at Cincinnati, Ohio.

# CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS R'Y CO. 141

#### GENERAL EXHIBIT.

GENERAL EXHIBIT.		,
	Debit.	Credit.
Total earnings from operation	\$9,879,805 70	\$18,011,462 62
Net income		\$3,131,656 92
Interest on funded debt	2,642,972 11 199,992 90	2,842,963 01
Balance applicable to dividends		\$288,691 91
Dividends declared (5 per cent), preferred stock	\$500,000 00 211,808 09	
Balance (profit and loss) last year		454,602 37
Received from sundry balances, 7 accounts		7,792 90
Balance forward to next year		\$251,087 18
ANALYSIS OF CAPITAL STOCK.		
Amount authorized by charter or articles of association. { Common		
Total amount paid in as per books of the company		. 38,416,832 45

#### ANALYSIS OF DEBT ACCOUNTS.

Paid in per mile of road owned by company, 1,804.74 miles.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
C. & L., mtge., Feb. 1, 1867	7%	Feb. 1, 1897	New York	\$379,000 00
L. & C., 1st mtge. June 1, 1871 I. St. L & C., 1st consol. mtge., March 8,	7%	Sept. 1, 1901	New York	792,000 00
1880	6≴	May 1, 1920	New York	717,000 00
, I., St. L. & C., genl. 1st mtge., Aug. 2, 1886	4%	Aug. 1, 1936	New York	7,685,000 00
& I. R. R. 1st mrtge., Jan. 1, 1864	l 7≰	Jan. 1, 1899	New York	73,000 00
, C., C. & I. R'y, 1st mrtge., S. F., May 1, 1869 , C., C. & I. R'y, 1st consol. mtge., June 1,	7%	May 1, 1899	New York	3,000,000 00
1874	7≴	June 1, 1914	New York	4,138,000 00
, C., C. & I. R'y, genl. consol. mtge., Jan.				l .''.
1, 1884	6%	Jan. 1, 1934	New York	8,205,000 00
& St. L. R. R., 1st mtge., July 1, 1869	7%	July 1, 1919	New York	2,000,000 00
& St. L. R'y, 1st mtge Nov. 1, 1882	6%	Nov. 1, 1912 April 1, 1901	New York New York	2,000,000 00
& S. R'y, 1st mtge., Feb. 22, 1871	7x 7x	Jan. 1, 1902	New York	125,000 00
& S. R'y, 2nd mtg., Jan. 1, 1872 , C., C. & St. L. R'y, (C., V. & C. R'y), 1st		Jan. 1, 1902	New Tolk	120,000 00
mtge., Jan. 1, 1890	4%	Jan. 1, 1939	New York	5,000,000 00
. I. & C. R. R., 1st consol, mtg., Jan. 1, 1838	5%	Jan. 1, 1928	New York	2,571,000 00
, C., C. & St. L. R'y, (S. & C. div.), mtge.,	i	1		
Oct. 30, 1890	4%	Sept. 1, 1940	New York	1,103,780 00
C., C. & St. L. R'y, (W. W. V. div.)	٠. م.	7 1 4 4040		470 000 0
mtge., Nov. 1, 1890	45	July 1, 1940	New York	650,000 00
C., C. & St. L. R'y, (St. L. div. 1st Cole	. 4%	Nov. 1, 1990	New York	10,030,000 00
rust) mtge., Nov. 1, 1890 C., C. & St. L. B'y, (C., W. & M. B'y div.)	**	NOV. 1, 1000	New TOTA	10,000,000 00
mtona Mav 9. 1891	1 4%	July 1, 1991	New York	4,000,000 00
C., C. & St. L. R'y, genl. mtge. bonds		.,		1 ' '
June 1. 1893	.1 45	June 1, 1993	New York	7,000,000 00
olo., Sp. & Cin. R. R., 1st mtge. bonds			l	
Sept. 1, 1871	5%	Sept. 1, 1901	New York	78,000 00
	<u> </u>	<u> </u>	<u> </u>	
				1
Total funded debt				\$55,016,730 00

#### UNFUNDED DEBT.

	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liqui	dated?	Amount.
For equipment For miscellaneous For current balances	To be paid in cash To be paid in cash To be paid in cash		\$546,344 66 878,899 81 3,169,817 89
Total unfunded debt			\$4,594,561 86
	RECAPITULATION.	•	
Total funded debtTotal unfunded debt			\$55,016,730 00 4,594,561 36
Total debt liabilities			\$59.611.291 36
Amount of debt liabilities per mil	le of road, 1,804.74 miles		38,030 40
	GENERAL BALANCE SHEET-DR.		
_	ounts	\$85,861,368 27	
Bonds owned Stock owned Investments in and advances to	branch lines	975,360 67 4,690,973 05 124,368 00	
Bills receivable			
Other assets:  Materials and supplies Sinking funds Debit balances from companies	and individuals	\$396,682 44 328,453 17 662,994 76	
Total			\$98,279,210 99
,	GENERAL BALANCE SHEET—Cr.		
Capital stock		55,016,730 00	\$93, <b>433,</b> 562 <b>4</b> 5
Dividends unpaid Notes payable		\$457,206 75 132,494 64 509,225 00 2,070,891 00	
Other liabilities (list as follows): Accrued interest on bonds not d		\$438,899 31 546,344 66 440,000 00	3,169,817 39
	8		1,425,248 97 251,087 18
			<u>———</u>
C	OST OF BOAD AND EQUIPMENT.		
•	Purchased by present company.		
When purchased: Consolidated Original cost to present company Amount expended since consolida by purchase and consolidation	, of road and equipment tion account of equipment and additional roa tions Tune 27 1880	ads acquired	40,557,867 88
Average cost per mile of road (no Proportion of cost for Michigan	t including sidings) 1,804.74 miles.		85,861,368 27 47,575 47 1,671,720 84

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

#### MAIN LINE.

MAIN LINE.		
Extensions and new sidings  New buildings C, S, & C, bonds assumed  Stock issued  Discount on bonds sold		\$150,938 13 50,145 95 78,000 00 500 00 200,000 00
		\$479,584 08
Total charges.		
Total charges to property account as above		479,584 08 479,584 08
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA	.N.	
PASSENGER BARNINGS.		
Main line and branches: Local fares Through fares	\$28,427 30 4,695 98	
•		
Total passenger fares	\$33,123 23	
Express and baggage	2,031 08 2,929 42	
Total passenger department earnings		\$38,083 73
Per train mile	\$0 66 1,083 77	
FREIGHT EARNINGS.		
Main line and branches: Local traffic Through traffic	\$40,192 49 52,488 50	
Total freight department earnings.		92,680 99
Per train milePer mile of road	\$1 44 2,634 47	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
PASSENGER EARNINGS.		
Main line and branches: Local fares	\$2,847,275 61	
Through fares	980,758 75	
Total passenger fares		\$3,828,029 36
Express and baggage	\$358,468 26 532,178 14	
Total passenger department earnings		4,718,675 76
Per train mile Per mile of road	\$0 83 2,567 13	
FREIGHT EARNINGS.		
Main line and branches : Local traffic	\$3,482,419 56 4.544.894 84	
Total freight department earnings		8,026,813 90
Per train mile	\$1 28 4,366 88	
Total transportation earnings, entire line	6,934 01	12,745,489 66
Miscellaneous receipts from operating account, other than for transportation From rents of tracks, yards and terminals	s follows:	
rom rents not otherwise provided for	100,503 12	265,972 96
Total		\$13,011,462 62

Distribution of miscellaneous earnings between main line and leased or proprietary reads	:
cellaneous.	Proportion for Michigan.
Company: C. C. C. & St. L. B'y Co	<b>8300 00-</b>
Total earnings from operation of road         \$13,011,462 6           Total earnings per mile of road         7,078 7           Total earnings per train mile         1 0           Proportion of taxable earnings for Michigan         3,729 7           Total taxable earnings per mile of road in Michigan         3,729 7	2 1 9
Total income from all sources 13,011,462 6	
Proportion of income for Michigan, actual	. 131,064 72
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	_ \$800,461 70
Danamala ad anti-	447 010 00
Renewals of rails Renewals of tees. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing	117,919 90 317,358 31 209,799 07 62,224 62 230,764 92 2,198 37 5,214 26
Repairs and renewals of fences, road crossings, signs and cattle guards	62,284 62
Repairs and renewals of buildings and fixtures	290,764 92
Repairs and renewals of docks and wharves	2,198 87
Repairs and renewals of telegraph	. 5,214 26
Stationery and printing	. 750 45
Total	\$1,746,751 60
MAINTENANCE OF EQUIPMENT.	
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars Repairs and renewals of freight cars. Repairs and renewals of work cars. Repairs and renewals of shop machinery and tools. Stationery and printing.	\$54,690 28 681,511 86 204,839 80 579,878 77
Repairs and renewals of locomotives.	. 681,511 86
Repairs and renewals of passenger cars.	. 201,839 00 579 978 77
Repairs and renewals of work cars	4.467 28
Repairs and renewals of shop machinery and tools	4,467 28 62,830 43
Stationery and printing.	2,432 96
Total,	
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men	\$146,525 72 944,695 16 789,375 04 63,762 82 28,543 75 23,232 96 688,842 02
Engine and roundhouse men	944,695 16
Fuel for locomotives	_ 789,875 04
Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives	- 03,102 02 98 549 75
Other supplies for locomotives	23,232 96
Train service	
Train supplies and expenses. Switchmen, flagmen and watchmen	116,517 78
Telegraph expenses	1.081.426.08
Station supplies	52,790 38
Switching charges—balance	102,980 48
Car mileage—balance	302,270 17
Liose and damage	. 102,000 93
Telegraph expenses Station service Station supplies Switching charges—balance Car mileage—balance Loss and damage. Injuries to persons Clearing wrecks	10.334 52
Advertising	44,487 20
Outside agencies	262,781 25
Kents for tracks, yards and terminals	196,392 90
Ment or bundings and other property	3,600 00 65 170 78
Advertising Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses	65,170 78 4,718 60
Total	<b>\$5,738,985 51</b>

#### GENERAL EXPENSES.

GEREEAL ELPENDED.		
Salaries of general officers. Salaries of cierks and attendants. General office expenses and supplies. Insurance.		\$83,482 50 220,741 42 50,316 87 48,083 36
Law expenses Stationery and printing (general offices) Other expenses Taxes		45,354 51 18,937 79 4,994 78 588,108 98
Total		
AVIII		
RECAPITULATION OF EXPENSES.	Per cent o	
	expenses.	
Maintenance of way and structures	17.83 15.27	\$1,746,751 60 1,539,091 38 5,738,985 51
Conducting transportation.  General expenses, including taxes.	56.93 10.47	5,738,985 51 1,054,970 16
Total operating expenses and taxes		10,079,798 60
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenu		5,488 78
11,871,067 miles	84	110 000 10
11,571,057 miles Proportion of operating expenses and taxes for Michigan Total proportion of expenses for Michigan Percentage of expenses to earnings \$131,064.72.		112,000 49 112,000 49
Percentage of expenses to earnings \$131,064.72.	85.45	542 52
Net earnings per mile of road Net earnings per train mile		15
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Goshen, Ind., to Benton Harbor, Mich., November 13, 1892.		
The above applies to "Michigan division," formerly C. W. & M. R'y, only perstate of Michigan	ert of road e	ntering the
The above applies to "Michigan division," formerly C. W. & M. R'y, only per State of Michigan.	art of road e	entering the
The above applies to "Michigan division," formerly C. W. & M. R'y, only per State of Michigan.  MAIN LINE.		
State of Michigan.  MAIN LINE.  In Michigan, from Benton Harbor to State line	Miles. 35.14	entering the
State of Michigan.	Miles.	
In Michigan, from Benton Harbor to State line In Ohio from various to various In Indiana from various to various In Illinois from various to various	Miles. 35.14 578.77 554.22 478.50	
In Michigan, from Benton Harbor to State line In Ohio from various to various. In Illinois from various to various In Illinois from various to various In Illinois from various to various  Total length completed Length of double track on main line	Miles. 35.14 578.77 554.22 478.50	Miles.
In Michigan, from Benton Harbor to State line In Ohio from various to various In Inlians from various to various In Illinois from various to various In Illinois from various to various  Total length completed Length of double track on main line  BRANCHES.	Miles. 35.14 578.77 554.22 478.50	Miles.
In Michigan, from Benton Harbor to State line In Ohio from various to various In Inlians from various to various In Illinois from various to various In Illinois from various to various  Total length completed Length of double track on main line  BRANCHES.	Miles. 35.14 578.77 554.22 478.50 55.38	Miles.
In Michigan, from Benton Harbor to State line In Ohio from various to various In Inlians from various to various In Illinois from various to various In Illinois from various to various  Total length completed Length of double track on main line  BRANCHES.	Miles. 35.14 578.77 554.22 478.50 55.38 6.44 8.02 4.20	Miles.
In Michigan, from Benton Harbor to State line In Ohio from various to various In Indiana from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various  — Total length completed Length of double track on main line  BEANCHES.  From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From East Alton, Ill., to Alton, Ill. From East Alton, Ill., to Alton, Ill.	Miles. 35.14 578.77 554.22 478.50 55.38	Miles.
In Michigan, from Benton Harbor to State line In Ohio from various to various In Indiana from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various  — Total length completed Length of double track on main line  BEANCHES.  From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From East Alton, Ill., to Alton, Ill. From East Alton, Ill., to Alton, Ill.	Miles. 35.14 578.77 554.22 478.50 55.38 6.44 8.02 4.20	Miles.
In Michigan, from Benton Harbor to State line In Ohio from various to various In Inlians from various to various In Illinois from various to various In Illinois from various to various  Total length completed Length of double track on main line  BRANCHES.	Miles. 35.14 578.77 554.22 478.50 55.38 6.44 8.02 4.20 62.36 15.34 7.70 26.21 37.84	Miles.
In Michigan, from Benton Harbor to State line In Obio from various to various. In Indiana from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various  Total length completed Length of double track on main line  BRANCHES.  From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From East Alton, Ill., to Alton, Ill. From Harrison, O., to Hagerstown, Ind. From Carey, O., to Findlay, O. From Calley Junction, O., to Harrison O. From Columbus, Ind., to Greensburg, Ind. From Martinsville, Ind., to Fairland, Ind.	Miles. 35.14 578.77 554.22 473.50 55.38 6.44 8.02 4.20 62.36 15.34 7.70 26.21 37.84	Miles. 1,636.63
In Michigan, from Benton Harbor to State line In Ohio from various to various. In Illinois from various to various. In Illinois from various to various. In Illinois from various to various. In Illinois from various to various.  Total length completed Length of double track on main line  BRANCHES.  From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From East Alton, Ill., to Alton, Ill. From Harrison, O., to Hagerstown, Ind. From Carey, O., to Findlay, O. From Valley Junction, O., to Harrison O. From Columbus, Ind., to Greensburg, Ind. From Martinsville, Ind., to Fairland, Ind.  Total length of branches owned by company Total length of road belonging to this company (excluding trackage, 33.37). Total length of road belonging to this company in Michigan.	Miles. 35.14 578.77 554.22 478.50 55.38 6.44 8.02 4.20 62.36 15.34 7.70 26.21 87.84	Miles. 1,636.63
In Michigan, from Benton Harbor to State line In Ohio from various to various. In Indian from various to various. In Illinois from various to various. In Illinois from various to various. In Illinois from various to various. In Illinois from various to various.  Total length completed  BEANCHES.  From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From East Alton, Ill., to Alton, Ill. From Harrison, O., to Hagerstown, Ind. From Carey, O., to Findlay, O. From Valley Junction, O., to Harrison, O. From Columbus, Ind., to Greensburg, Ind. From Martinsville, Ind., to Fairland, Ind.  Total length of branches owned by company  Total length of road belonging to this company (excluding trackage, 33.37)  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, compute	Miles. 35.14 578.77 554.22 478.50 55.38 6.44 8.02 4.20 62.36 15.34 7.70 26.21 37.84	1,636.68  1,636.68  168.11 1,804.74 35.14
In Michigan, from Benton Harbor to State line In Ohio from various to various In Indiana from various to various In Indiana from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various In Illinois from various to various In Illinois from St. Francisville, Ill., to Vincennes, Ind. From East Alton, Ill., to Alton, Ill. From East Alton, Ill., to Alton, Ill. From Harrison, O., to Harrison, O. From Valley Junction, O., to Harrison, O. From Valley Junction, O., to Harrison, O. From Martinsville, Ind., to Fairland, Ind. Total length of branches owned by company Total length of road belonging to this company (excluding trackage, 33.37) Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs, and other tracks not above enu	Miles. 35.14 578.77 554.22 478.50 55.38 6.44 8.02 4.20 62.36 15.34 7.70 26.21 37.84	1,636.68  1,636.68  168.11  1,804.74  8.21
In Michigan, from Benton Harbor to State line In Ohio from various to various. In Indiana from various to various. In Illinois from various to various. In Illinois from various to various. In Illinois from various to various.  Total length completed Length of double track on main line  BRANCHES.  From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From Bats Alton, Ill., to Alton, Ill. From Harrison, O., to Hagerstown, Ind. From Carey, O., to Findlay, O. From Carey, O., to Findlay, O. From Columbus, Ind., to Greensburg, Ind. From Martinsville, Ind., to Fairland, Ind.  Total length of branches owned by company  Total length of road belonging to this company (excluding trackage, 33.37)  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, compute track.  Gauge of track, 4 feet 8½ inches.	Miles. 35.14 578.77 554.22 473.50	168.11 1,804.74 35.14 8.21 43.85
In Michigan, from Benton Harbor to State line In Ohio from various to various. In Indiana from various to various. In Illinois from various to various. In Illinois from various to various. In Illinois from various to various.  Total length completed Length of double track on main line  BRANCHES.  From Lawrenceburg Junction, Ind., to Aurora, Ind. From St. Francisville, Ill., to Vincennes, Ind. From Bats Alton, Ill., to Alton, Ill. From Harrison, O., to Hagerstown, Ind. From Carey, O., to Findlay, O. From Carey, O., to Findlay, O. From Columbus, Ind., to Greensburg, Ind. From Martinsville, Ind., to Fairland, Ind.  Total length of branches owned by company  Total length of road belonging to this company (excluding trackage, 33.37)  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, compute track.  Gauge of track, 4 feet 8½ inches.	Miles. 35.14 578.77 554.22 473.50	1,636.68  1,636.68  168.11  1,804.74  8.21

## Number of bridges and treetles in Michigan.

Number of bridges and treetles in Michigan.	
Wooden trestles	Aggregate length feet. 1,878
Total	1,878
Crossings.—Railroad and highway.	
What railroads cross your road either over or under your grade in this State, and where?  Over:  Michigan Central P. B. at Viles (main line)	
Michigan Central R. R. at Niles (main line). Michigan Central R. R. at Niles (South Bend div.)	
Number of crossings of highways at grade in this State	56 8 1
What pattern or patterns in use? Pneumatic.	
Number of crossings of highways over or under railroad: over, 2; under, 1	8 2
Are your frogs and guard rails blocked as required by act 174, Session Laws of 18837 Yes.	
How are they treated? Wooden blocks.	
Stations.	
Number of stations on whole lines.	521 8
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	9, <b>43</b> 2 84
Classify your employés as per following list:	Number.
Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others	80 514 265 487 487 2,450 1,625 629 2,995
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	70.28
Road bed and track.	
Number of track sections in Michigan  Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line during the year.  Number of new ties put in track and sidings in Michigan  Average number of new ties per mile of road  New rails put in track:  Steel [tons, 4,404.1,759], miles  Total miles of track laid with new rails	5 7.03- 459 7,927 398 35.04 35.04
	====
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, linear feet	41
Timber culverts replaced during the year:	Number.
With iron pipe	70 5 40
W 1000	

ROLLING STOCK.	Number, 1	Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	482	\$1,944,000 00 67,500 00
Total	459	\$2,011,500 00
Number of passenger cars—12-wheel, including official cars.  Number of passenger cars—3-wheel, including official cars.  Number of express and baggage cars.  Number of box freight cars.  Number of stock cars.  Number of platform cars.  Number of ore cars.  Number of conductors way cars.  Other cars.	8,648 638 1,660 1,195	185,000 00 882,000 00 268,800 00 78,800 00
Total		\$4,925,100 00
Number of locomotives equipped with power brakes		487 867 8,894
What patterns of power brakes have you in use, and number of locomotives and Locomotives, with Westinghouse air brakes Locomotives, with New York air brakes Locomotives, with steam driver brakes Passenger cars, with Westinghouse air brakes Freight cars, with Westinghouse air brakes	cars with	each?  345 78 14 367 8,894
Total		4,698
What pattern or patterns have you adopted for use?  Master Car Builder's Standard.  How are your passenger cars heated? By steam.  MILEAGE, TRAFFIC, ETC.		
		In Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains	5,594,986 6,074,751 201,400	60,758
Total mileage of trains earning revenue	11,871,087	122,368
Passenger traffic.—Entire lines. Number. Number of through passengers carried, earning revenue	Miles.	Rate.
Total number of passengers carried, earning revenue 5,177,167		
Number of passengers carried one mile		\$0 74 01.986
Passenger traffic.—In State of Michigan.		
Number of through passengers carried, earning revenue		
Total number of passengers carried, earning revenue		

Freight traffic.—Entire lines.	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	4,558,094 8,488,454		
Total tons of freight carried, earning revenue	8,041,548		
Total mileage of through freight		909,744,481 381,494,246	
Total freight mileage or tons carried one mile	1	,291,238,727	
Average ton haul for through freight		199.6 109.5	
Average ton haul for all freight		160.6	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for local freight Estimated cost of carrying one ton one mile			\$0 99.817 00.500 00.913 00.622 00.482
Freight traffic.—In State of Michiga	n.		
Number of tons of through freight carried, earning revenue	814,815 190,578		
Total tons of freight carried, earning revenue	504,893		
Total mileage of through freight		10,498,134 4,402,347	
Total freight mileage or tons carried one mile		14,900,481	
Average ton haul for through freight	· · · · · · · · · · · · · · · · · · ·	83.4 23.1	
Average ton haul for all freight		29.5	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for local freight.  Estimated cost of carrying one ton one mile.			\$0 18.357 00.500 00.918 00.622 00.531

#### FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

#### Company's material excluded.

	Freight	Freight re- ceived from	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	connecting roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	868,056	294,686	1,162,742	14.46	
Flour Other mill products.	210,919	54,828	285,247	3.30	
Other mili products	100,235	86,275 50,176	136,510	1.70 1.54	
Hay	74,752	10,142	124,928 21,689	1.54 .27	
Tobacco	11,547	63,209	63,209	.79	
Cotton Fruit and vegetables	50,614	101,620	152,234	1.80	
Products of animals:					
Live stock	136,124	189,212	325,336	4.00	
Dressed meats Other packing house products Poultry, game and fish	35,116	92,114	127,230	1.58	
Other packing house products	14,994	31,187 7,854	46,181 22,683	.57 .28	
Poultry, game and nan	14,829 1,007	4,296	5,308	.07	
Wool. Hides and leather.	5,287	15,242	20,479	.2	
Products of mines:					
Anthracite coal Bituminous coal		97,533 760,320	99,533	1.24	
	864,136	760,320	1,624,456	20.2	
Coke	12,420	97,238 34,266	109,658 54,266	1.80 .60	
Ores Stone, sand and other like articles	308,063	128,632	486,695	5.44	
Salt	5,631	81,229	86,860	1.00	
Products of forest: Lumber, logs and shingles.	217,909	660,318	878,227	10.92	
	1		·		
Manufactures: Petroleum and other oils	14,065	119 997	127,352	1.58	
Sugar		113,287 98,230	101,149	1.2	
Naval stores	6,865	12.246	19,111	1.2	
Iron nig and bloom	78,078	44.615	122,693	1.5	
Iron, pig and bloom Iron and steel rails.	11,414	4.620	16,034	.2	
Other castings and machinery Bar and sheet metal	171,519	91,430	262,949	3.2	
Bar and sheet metal.	39,693	81,725	121,418	1.5	
Cement, brick, and lime	137,411	72,416	209,827	2.6	
Agricultural implements	17.588	9,515	27,053	.8	
Wagons, carriages, tools, etc	6,541	3,290	9,831	.1	
Wines, liquors and beers Household goods and furniture	68,717 19,501	29,741 7,296	96,458 26,797	1.2 .8	
Merchandise	563,185	374,212	987,397	11.60	
Miscellaneous:	1				
Other commodities not mentioned above	81,788	118,290	200,013	2.49	
Total tonnage.	4,148,818	3,892,730	8,041,548	100.00	

#### FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

#### Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freigh	t tonnage.
10	n this road. Whole tons.	roads and other carriers Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	2,592	8,011	10,603	2.10
Flour Other mill products.	19,920	78,281	98,151	19.44
Other mill products	832	4,116	4,948	.96
Hay	417	845	1,262	.21
Tobacco Fruit and vegetables.	50 15,009	45,629	60,688	.00 12.01
Products of animals:		!		
Live stock	331	830	1,161	.24
Dressed meats	152	201	353	.07
Other packing house products Poultry, game and fish	982	1,948	2,928	.50
Poultry, game and fish	29 38	72	101	.07
Wool	38	113	151	.00
Hides and leather	292	970	1,262	.2
roducts of mines: Anthracite coal		15,551	15,551	8.0
Pitnminous coal		58,014	53.014	10.5
Bituminous coal Stone, sand and other like articles	8,276	27,168	85,444	7.0
Salt	6,230	39,261	45,491	9.0
Products of forest:				
Lumber	40,434	78,115	118,549	23.4
fanufactures:				
Petroleum and other oils		151	151	.03
Sugar Iron, pig and bloom	2.471		101 13.682	.0. 2.7
Iron and steel rails	407	11,161 855	1,262	2.7
Other castings and machinery	1.330	3,618	4.948	.9.
Bar and sheet metal	1,330	820	1,000	٠,
Cement, brick and lime	249	761	1.010	.0 .2 .2
Agricultural implements	290	821	1 1.111	.2
Wagons, carriages, tools, etc.	402	1,416	1,818	.3
Wines, liquors and beers Household goods and furniture	846	1,068	1,414	.2
Household goods and furniture	599	2,137	2,726	.5
Merchandise	9,580	15,261	24,841	4.9
Miscellaneous: Other commodities not mentioned above	499	1,218	1,717	.8
Total tonnage	111,852	393,041	504,893	100 0

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Fixed minimum rate for business on entire system of \$317,572 per annumbased on 40% of gross earnings. If 40% of gross earnings exceeds minimum excess is paid by company at end of year. They do all varieties of express business, we receiving their freight at our stations only.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
All lines owned by Western Union Telegraph Company. Number of miles unknown. Railway company has free use of one wire for railroad purposes.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### DIJURRO,

January 25, Thomas Glavin, brakeman, Niles. Coupling
March 12, E. Rodabaugh, engineer, Benton Harbor. At station; getting off engine.
June 23, A. E. Atwood, trespasser, Benton Harbor. Fell from ear.
July 30. D. Crawley, engineer, Benton Harbor. At station; getting off engine.
August 1, Drake Clifford, fireman, Benton Harbor. Fell from engine.
August 11, Jno. Barke trespusser, Benton Harbor. At station.
August 18, Mrs. Davis, Niles. Highway crossing
August 18, Mrs. Davis, Niles. Highway crossing
September 26, C. M. Hutchins, conductor. Benton Harbor. Fell from tank.
Beptember 28 Geo. Shumm, brakeman, Benton Harbor. Fell from car.
October 27 Henry knott, trespasser, Niles. Wanking on track.
November 24, W.S. Ferguson, conductor, Bernien Center. Fell from car.
November 24, H. E. Brown, conductor, Sodus. Dermiment.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN

Charles of continue		Killed.			Injured.		
Causes of accident.	Passengera,	Employée.	Others,	Passongues,	Employés.	Others	
oupling cars 1	.}				1	*******	
alling from trainstting on and off trainslghway crossings					2	*******	
respassers on trains	.		**********				
Total	<u> </u>				8		

# SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year Number of essualties purely accidental Number resulting from lack of caution, carelessness, or miscondust. Trespassers and tramps killed or injured.	18 10 3
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# CLASSIFCATION OF EMPLOYÉS.

# EILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total
Brakemen Conductors Engineers Piremen		2 4 1	8 4 1
Total	*****	8	8

STATE OF OHIO, COUNTY OF HAMILTON, Sec.

E. F. Osborn, Secretary and P. A. Hewitt, Auditor of the Cleveland, Cincinnati, Chicago & St. Louis Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

[L. S. OF B. B.]

E. F. OSBORN, Secretary. P. A. HEWITT, Auditor.

Subscribed and sworn to before me this 25th day of March, A. D. 1897.

JOSEPH MOCES, Notary Public,

#### ANNUAL REPORT

OF THE

# DETROIT, GRAND HAVEN & MILWAUKEE RAILWAY COMPANY.

For the year ending December 81, 1896.

[Filed March 27, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Secretary and Treasurer, JAMES H. MUIR, Detroit, Michigan. General Superintendent, F. H. McGUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Michigan. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HERBERT ROBERTS, Fort Gratiot, Michigan. MasterCarBuilder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant General Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec. First Assistant General Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

#### DIRECTORS.

CHARLES M HAYS, Montreal, Province of Quebec.
A. B. ATWATER, Detroit, Michigan.
CHARLES BUNCHER, Detroit, Michigan.
JOSEPH HOBSON, Montreal, Province of Quebec.
GEORGE JEROME, Detroit, Michigan.
E. W. MEDDAUGH, Detroit, Michigan.
CHARLES PEROY, Montreal, Province of Quebec.
JOHN PELDGEON, JR., Detroit, Michigan.
W. J. SPICER, Detroit, Michigan.
Terms expire 4th October, 1897, or when successors are appointed.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 7th March, 1834, as the Detroit & Pontiac Railroad Co. Number of stockholders at date of last election: 11. Number of stockholders in Michigan at same date: 6. Amount of full paid stock held in Michigan at same date: \$300. Date of annual meeting of stockholders: First Monday in October. Fiscal year of company ends: 31st December. General offices of the company are located at Detroit, Michigan.

GENERAL EXHIBIT.		
	Debit.	Credit.
Total earnings from operation		\$977,820 97
Total expenses, including taxes	\$903,577 41	
Net income		\$74,243 56
Interest on funded debt	\$324,500 00	
Interest on unfunded debt	27,009 88	
•		851,509 88
Balance for the year, a deficit of	\$277,286 32	
Balance paid by the Grand Trunk Railway Company of Canada under guaranties		\$277,266 32
	\$277,263,82	1277,266 82
	===	
ANALYSIS OF CAPITAL STOCK.		
		\$1,500,000 00
Par value of shares \$50 00		
Number of shares issued	\$1,500,000 00	
Total amount paid in as per books of the company		\$1,500,000 00
Paid in per mile of road owned by company, 189 miles		7,936 51

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
Equipment mortgage bonds, issued Nov. 14, 1878. Consolidated mortgage bonds, issued Nov. 15, 1878 Mortgage on land forming part of Detroit depot. Mortgage on land forming part of Detroit	6% 6% 5%	Nov. 14, 1918 Nov. 15, 1918 Oct. 1, 1900	In New York or London	8,200,000 00 146,000 00
Total funded debt	8%%	On demand	In Detroit, Mich.	\$5,426,000

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For miscellaneous		\$1,975,976 11

#### RECAPITULATION.

MMOMI II OMNI I	
Total funded debt	\$5,426,000 00
Total funded debt	1,975,976 11
	47 401 076 11
Total debt liabilities	\$1'40T'AID IT
Amount of debt liabilities per mile of road, 189 miles	39,163 89
Amount of debt liabilities per mile of road, 189 miles	8,901,976 11
Stock and debt per mile of road, 189 miles.	47,100 40
•	

# GENERAL BALANCE SHEET.-DR.

Construction and equipment account		\$7,065,492 88
Cash Bills receivable Due from agents	\$18,548 10 100,400 02 27,003 01	145,946 18
Other assets: Debit balances from companies and individuals	\$879,807 17	
Grand Trunk Bailway Company of Canada for interest coupons held for paym guaranties, per contra.	ents under	379,807 17 1,310,730 48
Total		\$8,901,976 11
GENERAL BALANCE SHEETCr.		
Capital stock. Funded debt.		\$1,500,000 00 5,426,000 00
		\$6,926,000 00
Unfunded debt: Interest unpaid	\$78,093 40 587,152 23	
Vouchers and accounts Other liabilities:		
Grand Trunk Railway Company of Canada for payments under guaranties	1,810,780 48	1,975,976 11
Total		\$8,901,976 11
COST OF ROAD AND EQUIPMENT.		
PURCHASED BY PRESENT COMPANY.		
When purchased: September 4, 1878. Transferred by receiver, October 19, 1878 Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment Total cost to date of report. Average cost per mile of road (not including sidings) 189 miles Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE		\$6,700,000 00 319,731 33 45,761 00 7,065,492 33 37,383 56 7,065,492 33
MAIN LINE.		
Improvement of track—extensions and new sidings		\$9,056 11
Total charges		• • • • • • • • • • • • • • • • • • • •
Total charges to property account as above	· · · · · · · · · · · · · · · · · · ·	9,056 11 831 00 8,225 11
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI	CHIGAN.	
Main line and branches:		
Local fares	\$853,122 52 12,048 94	
Total passenger fares	\$365,166 46	
Express and baggage Mails Other sources	27,762 71 80,227 88 8,573 10	
Total passenger department earnings		\$426,729 60
Per train mile	<b>\$0</b> 87 2, <b>25</b> 7 83	

PREIGHT BARNINGS.		
Main line and branches: Local traffic. Through traffic.	\$417,746 84 77,832 01	
Total traffic	\$495,078 35	
Total freight department earnings		\$495,078 35
Per train milePer mile of road	\$1 18 2,619 46	
Total transportation earnings, entire line		\$921,807 95
Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation, as follows:	\$4,877 29 1 01	
From switching charges balance. From rents of tracks, yards and terminals From rents not otherwise provided for.	45,331 00 7,506 78 3,175 24	
Total		56,018 02
Total earnings from operation of road.		\$977,820 97
Total earnings per mile of road	\$5,178 66	
Total earnings per train mile Proportion of earnings for Michigan Total earnings per mile of road in Michigan	1 07 977,820 97 5,173 <b>66</b>	
Total income from all sources		\$977,820 97
Proportion of income for Michigan.		977,820 97
Analysis of expenses.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway Renewals of rails	• • • • • • • • • • • • • • • • • • • •	\$69,777 07 28,886 00
Renewals of ties Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Stationery and printing Total		42,055 60 15,097 01 9,361 20 16,164 64 9,414 12 138 90 \$185,894,54
MAINTENANCE OF EQUIPMENT.		
·		<b>6</b> 9 914 70
Superintendence.  Repairs and renewals of locomotives  Repairs and renewals of passenger cars  Repairs and renewals of freight cars  Repairs and renewals of work cars  Repairs and renewals of shop machinery and tools  Stationery and printing  Other expenses		\$2,814 79 60,124 28 20,401 65 38,520 65 58 10 9,068 76 181 54 3,471 75
Total	•	\$134,141 52

# CONDUCTING TRANSPORTATION.

COMDUCTING TRANSPORTATION.	
CONDUCTING TRANSPORTATION.  Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and wate for locomotives Other supplies for locomotives Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service Station service Station supplies Car mileage—balance. Hire of equipment Loss and damage Injuries to persons Clearing wrecks Advertising Outside agencies Commissions Rent of buildings and other property Stationery and printing Total	\$10,221 85 89,536 00 69,882 79 3,729 72 1,614 75 54,112 84 20,632 37 37,351 45 25,114 52 118,186 16 11,682 23 22,639 00 19,500 00 2,073 38 5,507 57 146 85 4,017 79 17,587 43 989 66 6,860 38 5,022 24
•	
GENERAL EXPENSES.  Salaries of general officers. Salaries of cierks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Taxes.	\$7,186 98 11,029 37 1,012 39 5,787 41 3,130 14 27,205 82
Total	<b>\$55,522 68</b>
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures 20.57  Maintenance of equipment 14.85 Conducting transportation 58.44 General expenses, including taxes 6.14  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 910,803 miles.  Proportion of operating expenses and taxes for Michigan.	\$185,894 54 134,141 52 528,018 67 55,522 68 \$903,577 41 4,780 83 9903,577 41
Maintenance of way and structures	134,141 52 528,018 67 55,522 68 \$908,577 41 4,780 88 99 908,577 41
Maintenance of way and structures 20.57  Maintenance of equipment 14.85 Conducting transportation 58.44 General expenses, including taxes 6.14  Total operating expenses and taxes per mile of road 00.00 Operating expenses and taxes per mile of road 00.00 Congreting expenses and taxes per mile of road 00.00	134,141 52 528,018 67 55,522 68 \$908,577 41 4,780 88
Maintenance of way and structures	184,141 52 528,018 67 55,522 68 \$908,577 41 4,780 88 908,577 41 \$903,577 41
Maintenance of way and structures. 20.57 Maintenance of equipment 14.85 Conducting transportation 58.44 General expenses, including taxes 6.14  Total operating expenses and taxes per mile of road 0perating expenses and taxes per train mile run, for trains earning revenue, 910,803 miles.  Proportion of operating expenses and taxes for Michigan 20.50  Total proportion of expenses for Michigan 20.50  Percentage of expenses to earnings 20.41 Not earnings per mile of road 20.50  DESCRIPTION OF ROAD.	184, 141 52 528,018 67 55,522 68 \$908,577 41 4,780 88 908,577 41 \$903,577 41 \$903,577 41
Maintenance of way and structures	184,141 52 528,018 67 55,522 68 \$908,577 41 4,780 88 903,577 41 \$903,577 41 \$903,577 41
Maintenance of way and structures	184, 141 52 528,018 67 55,522 68 \$908,577 41 4,780 83 908,577 41 \$903,577 41 \$903,577 41
Maintenance of way and structures	184,141 52 528,018 67 55,522 68 \$908,577 41 4,780 83 903,577 41 \$903,577 41 \$903,577 41 \$903,577 41 \$92 82 08 \$Miles. 189.00

# Gauge of track, 4 feet 81/2 inches.

Number of bridges and trestles in Michigan.	Aggregate ength, feet.
Iron bridges 25 Wooden treatles 37	8,152 2,616
Total 62	5,768
Swing bridges in Michigan.	
How many on your line.	2
Where located, when built, and length of draw span? Near Ferrysburg, one in 1870, two openings, 80 feet each. Near Ferrysburg, one in 1884, two openings, 75 feet each.	
Character of structure:	
Material of which constructed: Iron.	
Height above water, and depth of water under bridge: 1870 bridge, height 9 feet 6 inches; depth of water 16 feet. 1884 bridge, height 8 feet 7 inches; depth of water 24 feet.	
How swing, by engine or hand power: Hand power.	
Approaches straight or curved: Two straight and two curved.	
Do you require all trains to come to full stop before crossing a draw, and how are they sign. Yes. By distant semaphores.	aled?
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Grand Trunk R'y 4 miles west of Detroit station. Detroit & Bay City R. R. 4 miles west of Detroit station. Michigan Air Line R'y at Pontiac. Flint & Pere Marquette R. R. at Holly. Chicago & Grand Trunk R'y at Durand. Ann Arbor R. R. at Durand. Cincinnati, Saginaw & Mackinaw R. R. at Durand. Jackson, Lausing & Saginaw R. R. at Owosso. Detroit. Lansing & Northern R. R. at Ionia. Lowell & Hastings R. R. at Lowell. Grand Rapids & Indiana R. R. at Grand Rapids, Chicago & West Michigan R'y at Grand Rapids and Ferrysburg.	
What railroads cross your road either over or under your grade in this State, and where? Under: Muskegon, Grand Rapids & Indiana B. R. at Berlin.	
At what crossings are interlocking and derailing switches in operation?  Milwaukee Junction—crossing of the Detroit & Bay City R. R.	
What pattern or patterns have you adopted? Union Switch and Signal Company's.	
Number of crossings of highways at grade in this State	251 86 2
What pattern or patterns in use?  Electric skeleton bells with push button.	
Number of crossings of highways over or under railroad: over, 15; under, 9	24
Number of highway bridges 18 feet above track	10 5
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, session laws of 1883? Yes.	
How are they treated? Plank blocking.	
Stations.	
Number of stations on whole lines. Same in Michigan	44 44

# Employés.

	ename ab en el en demale.	!	واوام المحالة والمحام	1 00
umber of persons regularly en ame in Michigan	proyector arr roads opers	company, in	cinging omeists	1,25 1,24
lassify your employés as per	following list:			Numbe
Baggagemen Brakemen				2
Conductors				
Engineers Firemen				4
Laborers				44
Shopmen Yardmen				18
Others				43
	REPAIRS AND RE Fencing in Mi			
ow many miles of fencing ha		_		86
	Road bed and	track.		
amber of track sections in M	ichigan			;
verage lengths of sections, m verage number of men in eac	h section gang			
rerage number of men in each amber of new ties put in who amber of new ties put in trace	le line and sidings during	the year		117,2 117,2
erage number of new ties pe	r mile of road and siding	<b>2</b>		111,2
w rails put in track: Steel, tons 1,327, miles				
Steel, tons 1,327, miles Fotal miles of track laid wit	h new rails			
	Bridges and ou	ilverts.		
				Numbe
mber culverts replaced duri	ng the year			Numbe
imber culverts replaced duri With iron pipe	ng the year			
With iron pipe With sewer pipe				
imber culverts replaced duri With iron pipe				
With iron pipe With sewer pipe With timber				
With iron pipe	ear—number 1.  Kind.	Material.	Month built.	feet in length
With iron pipe	ear—number 1.  Kind.	Material.	Month built.	feet in length
With iron pipe	Kind.  Through plate girder	Material.	Month built.	feet in length
With iron pipe With sewer pipe With timber w bridges built during the p	ear—number 1.  Kind.	Material.	Month built.	feet in length i
With iron pipe	Kind.  Through plate girder	Material.  Iron	Month built.  February	feet in length 1 Present est
With iron pipe	Kind.  Through plate girder  ROLLING S'	Material.  Iron	Month built.  February  Number. 1	feet in length 1 Present es nated valu \$140,000
With iron pipe	Kind.  Through plate girder  ROLLING S'	Material.  Iron	Month built.  February  Number. 1	feet in length 1 Present es nated valu \$140,000
With iron pipe With sweer pipe With timber  Location.  Location.  Par Ferrysburg  Indicate the property of the proper	Kind.  Through plate girder  ROLLING S'	Material.  Iron	Month built.  Pebruary	feet in length 1 Present est nated valu \$140,000
With iron pipe With sweep pipe With timber  Location.  Location.  Par Ferrysburg  Indicate of locomotives of more total  Interpretable of passenger cars	Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception official or the strength of the streng	Material.  Iron	Number.	feet in length 1 Present est nated valu \$140,000
With sweep pipe With sweep pipe With timber  Location.  Location.  Par Ferrysburg  Indicate the pipe shows a second sec	Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception official or the strength of the streng	Material.  Iron	Number.	feet in length 1 Present est nated valu \$140,000 \$140,000 \$20,500 83,900 21,000
with swer pipe  With swer pipe  With timber  With timber  Location.  Location.  Dar Ferrysburg  Inmber of locomotives of more than the pipe seems of more than the pipe seems of passenger cars—2-timber of passenger cars—8-value of express and baggamber of box freight cars  Inmber of stock cars	Kind.  Kind.  Through plate girder  ROLLING S'  e than 30 tons weight, exception official of the control of the	Material.  Iron	Number. 1 29 29 29 29 11 382	feet in length 1 Present est nated valu \$140,000 \$140,000 \$20,500 83,900 21,000
with iron pipe  with sewer pipe  With timber  With timber  With timber  Location.  Location.  Par Ferrysburg  Imber of locomotives of more than the properties of passenger cars—12-mber of passenger cars—8-vamber of express and baggatamber of stock cars  Imber of platform cars  Imber of conductors' way os ther cars as follows:	Kind.  Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exc  wheel, including official of	Material.  Iron	Number. 1 29 29 29 29 29 29 29 20 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	feet in length 1  Present est state, 000 \$140,000 \$20,500 83,900 21,000 101,780 8,000 48,570
with iron pipe  With swer pipe  With timber  With timber  With timber  With timber  Location.  Location.  Par Ferrysburg  Inmber of locomotives of more than the property of passenger cars  Total  Inmber of express and baggate the property of stock cars  Inmber of stock cars  Inmber of platform cars  Inmber of conductors' way cather cars as follows:  Charcoal cars	Kind.  Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception official or the second secon	Material.  Iron	Number. 1 29 29 29 312 325 325 21	feet in length 1  Present est state, 000 \$140,000 \$20,500 83,900 21,000 101,780 8,000 48,570
With iron pipe With timber With timber With timber With timber We bridges built during the part of the part of passenger cars—12 part of passenger cars—8-yamber of passenger cars—8-yamber of box freight cars part of the part of the passenger cars—12 part of the passenger cars—13 part of the passenger cars—14 part of the passenger cars—15 passenger cars—16 passenger cars as comber of stock cars passenger cars as follows: Charcoal cars Combination freight and cars Combination freight and cars Combination freight and cars	Kind.  Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception of the second	Material.  Iron	Number. 1 29 29 29 29 29 29 20 21 21 21 21	feet in length 1  Present est state, 000 \$140,000 \$20,500 83,900 21,000 101,780 8,000 48,570
with iron pipe  With sewer pipe  With timber  With timber  With timber  With timber  Location.  Location.  Par Ferrysburg  Index of passenger cars—12.  Index of passenger cars—8-vamber of passenger cars—8-vamber of stock cars amber of stock cars amber of stock cars.  Index of platform cars amber of conductors' way os ther cars as follows:  Charcoal cars  Combination freight and carsumities are sure cars	Kind.  Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception of the second	Material.  Iron	Number. 1  Pebruary  Number. 29  29  11  362 25 25 25 21 19 10 1	feet in length 1 Present est nated valu \$140,000 (5140,000 (21,000 (21,000 (48,570 (14,500 (48,570 (14,500 (48,570 (14,500 (48,570 (14,500 (48,570 (14,500 (48,570 (14,500 (48,570 (14,500
with iron pipe  With swer pipe  With timber  With timber  With timber  Location.  Location.  Location.  Par Ferrysburg  Inmber of locomotives of more than the professed of the professed of the professed of the professed of the professed on the professed of the	Kind.  Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception official or the second secon	Material.  Iron	Number. 1  Pebruary	feet in length  Present est nated valu \$140,000 (\$140,000 (\$21,000 (\$21,000 (\$45,570
With iron pipe. With timber With timber With timber With timber With timber With timber With timber  Location.  Location.  Dar Ferrysburg  Imber of locomotives of more timber of passenger cars—12- Imber of passenger cars—8- Imber of express and bagga- Imber of express and bagga- Imber of stock cars Imber of stock cars Imber of onductors way can Imber of conductors way can Indicate the conductors way can Indicate the cars as follows: Charcoal cars Combination freight and can Furniture cars Auxiliary cars  Total	Kind.  Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception official or the second secon	Material.  Iron	Number. 1  Pebruary	feet in length  Present est nated valu \$140,000 (\$140,000 (\$21,000 (\$21,000 (\$45,570
with iron pipe With swer pipe With timber  With timber  With timber  Location.  Location.  Location.  Par Ferrysburg  Inmber of locomotives of more than the pipe.  Total  Inmber of passenger cars—12.  Inmber of passenger cars—8-vamber of express and baggas umber of stock cars umber of stock cars umber of platform cars umber of conductors way cather cars as follows:  Charcoal cars  Combination freight and cafuriture cars  Auxiliary cars	Kind.  Kind.  Through plate girder  ROLLING S'  than 30 tons weight, exception official or the second secon	Material.  Iron	Number. 1  Pebruary	feet in length

What patterns of power brakes have you in use, and number of locomotives and cars with each? Locomotives, with Westinghouse air brakes, 26.

Locomotives, with Eames' air brakes, 3.

Cars, with Westinghouse air brakes, 9.

Are your freight cars being equipped with automatic couplers as required by act No. 147, esssion laws of 1885, as amended by act No. 88, session laws of 1887?

Yes.

What pattern or patterns have you adopted for use? Gould and Janney.

How are your passenger cars heated?
Baker heater (hot water) and steam he at.

### MILEAGE, TRAFFIC, ETC.

Train mileage.		Entire lines. In	Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains		267,252	441,555 267,252 201,996
Total mileage of trains earning revenue		910,808	910,808
Passenger traffic.—Road all in State of h	lichigan.		
	Numbers	. Miles.	Rate.
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	8,02 547,98		
Total number of passengers carried earning revenue	550,95	3	
Number of passengers carried one mile Average distance carried		16,016,951 29.1	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			\$0 66.28 02.11 02.29 02.28
Freight traffic.—Road all in State of M	lichigan.		
	Tons.		Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	95,813 432,879		
Total tons of freight carried, earning revenue	528,69	1	
Total mileage of through freight			
Total freight mileage or tons carried one mile		41,696,949	
Average ton haul for through freight		. 189.0 . 54.5	
Average ton haul for all freight		78.9	
Average amount received for each ton haul	<del></del> -		\$0 93.64 00.43 01.77 01.19

# FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

a	Freight	Freight re- ceived from connecting	Total freight tonnag	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	33,415	82,040	65,455	12.88
Flour Other mill products.	11,517 2,724	57,606	69,123	13.07
Hay.	12,239	18,060 6,235	20,784 18,474	3.93 3.50
Tobacco	11,238	150	161	3.50 .08
Tobacco	14,809	8,299	23,108	4.87
Potatoes.	7,854	2,850	10,204	1.98
Products of animals:				
Live stock		8,104	18,565	3.51
Dressed meats. Other packing house products	100	5,210	5,810	1.01
Other packing house products	61	161	222	.04
Poultry, game and fish		1,667 226	2,007	.38
Wool	449 593	1,388	675 1,983	.18 .38
Products of mines:		• • •	,	
Anthracite coal	5,432	26,262	31,694	6.00
Anthracite coal Bituminous coal	5,718	6,772	12,490	2.36
Coke	36	221	257	.05
Ores Stone, sand and other like articles	87	77	114	.02
Stone, sand and other like articles Salt	81,236	2,194 1,238	33,430 1,238	6.32
			1,500	.20
Products of forest: Lumber	10,483	40,660	K1 1/9	9.67
Logs	1,056	4,161	51,148   5,217	.99
Shingles	1,010	1,320	2,330	:44
Manufactures:				
Petroleum and other oils		1,442	1,541	.29
Sugar	116	2,024	2,140	.41
Iron, pig and bloom Iron and steel rails Other castings and machinery	709	2,162	2,871	.54
Other costing and machine	30 368	132	162	.03
Bar and sheet metal	<b>200</b> 0	2,269 879	2,637 879	.50 .17
Cement, brick, and lime.	4,232	7,718	11.950	2.26
Agricultural implements	7,244	934	1,178	22
Agricultural implements. Wagons, carriages, tools, etc Wines, liquors and beers	1,409	497	1,906	.22
Wines, liquors and beers	291	364	655	.12
Household goods and furniture	5,480	1,391	6,871	1.30
Merchandise	28,778	39,308	68,086	12.88
Miscellaneous:				
Other commodities not mentioned above	25,474	28,360	53,834	10.18
Total tonnage	216,313	312,381	528,694	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

what kind to business is done by them, and do you take their resigns at the depot, or at the once of such express companies?

The National Express Company has exclusive right for passenger trains, and pays \$50.00 per day, for not exceeding 5,000 lbs. per day, and 60 cents per 100 lbs. excess, carrying light freight, money, etc., and taking freight to and from depots. The total payments for any one year not to be less than \$20.000.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

189 miles of wire belonging to the Western Union Telegraph Co., using the railroad company's poles. A second wire, 46½ miles long, of same telegraph company, with poles, runs between Detroit and Holly.

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Pullman's Palace Car Company, Chicago, Illinois; allowed mileage	248 20
	\$4.488 KA

Both these companies get the fares for seats and berths.

### Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
American Refrigerator Transit Co. Armour Car Lines. Armes Palace Horse Car Co. Burton Stock Car Co. California Fruit Transportation Co.	St. Louis, Mo	\$2 9' 146 30 3 0 8 55
Canada Cattle Car Co	Chicago, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. Indianapolis, Ind.	2 02 88 44 1 73 1 22 1 44
Cudahy Milwaukee Refrigerator Line	Milwaukee, Wis	8 1 5 6 1 1 0
Detroit Iron Furnace Co. Eureka Transportation Co. Excelsior Horse Car Line. Freeman Brothers. Hammond Refrigerator Line.	Detroit, Mich. Indianapolis, Ind. ('hicago, Ill. Pontiac, Mich. Hammond, Ind.	8 8 2 5 4 1 4 169 4
Havens, C. B. & Co. Hicks' Stock Car Co. International Fruit Dealers' Despatch. I. E. B. Funiture Line Kingman & Co.	Omaha, Neb	1 1/ 4/ 8 8 1 8/ 8
Kingan Refrigerator Line Kansas City Refrigerator Car Co. Libby, McNeil & Libby Refrigerator Line Live Poultry Transportation Co. Lipton Refrigerator Line.	Indianapolis, Ind. Kansas City, Mo. Chicago, Ill. Chicago, Ill. Chicago, Ill.	1 3: 0: 9/ 8 6: 85 1:
Michigan Ammonia Works	Detroit, Mich	6 2 2 1' 594 0' 66 8 11 5
National Despatch Line	St. Albans, Vt	3,697 1: 382 1: 379 8: 1 00 4 44 1 4:
Omaha Packing Co Ohio & Pennsylvania Coal Co Pittsburg Fast Flour Line Pittsburg Consolidated Coal Co Provision Dealers' Despatch Rend & Co., W. P	South Omaha, Neb. Cleveland, O. Pittsburg, Pa. Chicago, Ill. Chicago, Ill.	01 07 24 44 1 44 16
St. Charles Car Co	St. Louis, Mo. St. Louis, Mo. Kansas City, Mo. Chicago, Ill. Chicago, Ill. Louisville, Ky.	1 0 4 44 49 5 9 158 14
Union Iron Works Union Tank Line Union Refrigerator Transit Co Weaver-Getz Co White Star Line Western Rolling Stock & Equipment Co.	Detroit, Mich. New York, N. Y. St. Louis, Mo.	105 00 40 10 22 47 4 20 1 70
Total	<u> </u>	\$5,996 2

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

March 23, Thomas Verrio, trespasser, Spring Lake. Run over by a night train.

May 18, Bessie Swifink, child, Coopersville. Highway crossing. Inquest, "Train running fast."
July 16, Nicholas Harboard, trespasser, Lowell. Walking on track. Inquest, "Company exonerated."
August 25, John Greening, wiper, Detroit, Fell off engine; accidental. Inquest, "Company exonerated."
November 4, Charles Shields, brakeman, Pewamo. Slipped in front of moving cars. No inquest.

#### INJURED.

January 6, 1896, Walter Frelor, brakeman, Owosso. Coupling; lack of caution.
November 13, 1896, R. Waterworth, brakeman, Detroit. Coupling; lack of caution.
December 28, 1896, John Spaven, switch tender, Lake Shore Junction, Detroit. Run over; lack of caution.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.				Injured.	
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.
Coupling cars. Falling from trains.		1			2	
Highway crossings Miscellaneous Trespassers on tracks			1 2		i	·
Total		2	8		8	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	5
Number of persons injured during the year.  Number resulting from lack of caution, carelessness, or misconduct.	3
Trespassers and tramps killed or injured	ž

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Shopmen Not classified above	1 1	2	8 1 1
Total	2	3	5

# STATE OF MICHIGAN, } 88.

Almon B. Atwater, superintendent, and James H. Muir, secretary and treasurer, of the Detroit, Grand Haven & Milwaukee Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

A. B. ATWATER, Superintendent. JAS. H. MUIR, Secretary and Treasurer.

Subscribed and sworn to before me this 26th day of March, A. D. 1897.

[L. S.]

LAWRENCE F. LANG.

Notary Public, County of Wayne, State of Michigan.

### THREE MONTHS' REPORT

OF THE

# DETROIT, LANSING & NORTHERN RAILROAD COMPANY,

For the year ending March 81, 1896.

[Filed April 19, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Secretary, CHARLES MERRIAM, Boston, Mass.
Auditor, U. B. ROGERS, Grand Rapids, Mich.
Treasurer, CHAS. MERRIAM, Boston, Mass.
General Manager, CHARLES M. HEALD, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assistant Superintendent, T. H. MALONE, Ionia, Mich.
General Auditor, C. W. COURTRIGHT, Boston, Mass.
Chief Engineer, J. J. MCVEAN, Grand Rapids, Mich.
Assistant Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.
General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.
General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.
Attorney, WM. ALDEN SMITH, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
H. H. HONNEWELL, Boston, Mass.
J. A. BURNHAM, Boston, Mass.
G. O. SHATTUCK, Boston, Mass.
CHARLES MERRIAM, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
A. H. HARDY, Boston, Mass.
GEORGE WHITNEY, Boston, Mass.
F. H. DAMON, Boston, Mass.
G. ST. L. ABBOTT, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire second Wednesday in May, 1896.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 26, 1876.
Number of stockholders at date of last election: 471.
Number of stockholders in Michigan at same date: 2.
Amount of full paid stock held in Michigan at same date: \$10,600.
Date of annual meeting of stockholders: Second Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

### GENERAL EXHIBIT.

GENERAL EXHIBIT.		
	Debit.	Credit.
Total expenses, including taxes	\$204,805 77	\$237,998 51
Net income		\$33,192 74
Interest on funded debt	56,885 00 806 43 33,663 44	
Balance for the three months	57,162 13	
Balance (profit and loss) last year	151,907 61	
Balance forward to next year.	\$209,069 74	
ANALYSIS OF CAPITAL STOCK.		-
Amount authorized by charter or articles of association Par value of shares \$100 00 Number of shares issued 43,356		
Amount paid in on common	\$1,825,600 00 2,510,000 00	
Total amount paid in, as per books of the company		4,885,600 00
Paid in per mile of road owned by company, 221.57 miles		19,567 63

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

. Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
Detroit, Lansing & Northern R. R. Co., 1st mortgage bonds, 1877 Ionia & Lansing R. R. Co., 1st mortgage bonds, 1869	7x 5x	1907	Boston, Mass New York City	\$2,672,000 00 770,000 00
Total funded debt				\$3,442,000 00

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For construction	To be paid from earnings	\$1,164,474 60

### BECAPITULATION. .

Total funded debt	\$3,442,000 00 1,164,474 60
Total debt liabilities Amount of debt liabilities per mile of road, 221.57 miles Total amount of stock and debt Stock and debt per mile of road, 221.57 miles	\$4,606,474 60 27,901 55 8,942,074 60 40,357 78

# GENERAL BALANCE SHEET.-DR.

Construction account  Equipment account Other investments (specifying same): Construction and equipment G. R., L. & D. R. R. Construction and equipment, S. & W. R. R.	718 049 07		
Construction and equipment, S. & W. R. R.	568,586 65	\$9,682,682	85
Cash items: Cash Bills receivable Due from agents	\$28,880 73 3,900 70 11,675 06	44,456	49
Other assets: Materials and supplies. Sinking funds. Debit balances from companies and individuals. Common stock scrip.	\$87,992 37 261,065 67 413,286 48 71 00	762,415 209,069	. 52
Profit and loss			
10tal		10,040,314	=
GENERAL BALANCE SHEET.—Cr.			
Capital stock	84,885,600 00	ı	
Funded debt Capital stock G. R., L. & D. R. R. Capital stock S & W. B. R. Funded debt G. R., L. & D. R. R.	\$4,885,600 00 3,442,000 00 28,000 00	i	
Capital stock S & W. R. R.	4,500 00		
Funded debt G. R., L. & D. R. R. Funded debt S. & W. R. R.	4,500 00 1,108,000 00 566,000 00		
Funded (160) 5, 6, W. E. A.		\$9,484,100	00
Unfunded debt: Interest unpaid. Vouchers and accounts Other liabilities (list as follows:)	\$1,014,191 67 131,868 71		
Other liabilities (list as follows:)  Net traffic balances due other companies	18,414 22		
The state of the s		1,164,474	60
Total		10,648,574	60
·			=
COST OF ROAD AND EQUIPMENT.			
Total cost for construction and equipment of road and branches buil	t by compan	y.	
Total expended for construction and equipment.  Average cost per mile of road, not including sidings, 221.57 miles  Proportion of cost for Michigan		\$7,760,409 35,024 7,760,409	98 64 93
			=
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI	CHIGAN.		
PASSENGER EARNINGS.			
Main line and branches: Local fares Through fares	\$76,461 53 11,232 48		
Total passenger fares	\$87,694 01		
Express and baggage Mails	5,580 00 11,542 42		
Total passenger department earnings		\$104,816	48
Per train mile	\$0 78 314 08		
PREIGHT BARNINGS.			
Main line and branches: Local traffic Through traffic	105,181 17 24,532 97		
Total traffic	\$129,714 14		
Total freight department earnings.	<del></del>	129,714	14
		, . A E	

Per train mile \$1 17	
Per train mile	
Total transportation earnings, entire line	\$234,530 57
1,331 87   From telegraph companies   1,331 87   From other sources   2,036 07	3,467 94
Total	\$237,998 51
	237,998 51
Total earnings from operation of road	·
Total income from all sources	\$237,998 51
Proportion of income for Michigan	
analysis of expenses.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$23,045 73 440 79
Renewals of ties.	7,374 64
Renewals of ties Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures.	1,561 47 2,097 69
Repairs and renewals of buildings and fixtures	3,951 95 385 87
Repairs and renewals of telegraph. Stationery and printing.	385 87 87 24
Total	\$38,945 38
	*********
MAINTENANCE OF EQUIPMENT.	
Superintendence	\$1,220 61 12,978 31 8,690 83 8,748 89 250 31 1,223 28 77 38 2,881 37
Total	\$36,065 98
CONDUCTING TRANSPORTATION.	
Superintendense	\$3 ASR 75
Superintendence. Engine and roundhouse men	\$3,486 75 18,648 22
Water supply for locomotives	24,324 94 1,313 88
Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service. Train supplies and expenses Switchmen, flagmen and watchmen	796 47 222 01
Train service.	12,663 54
Train supplies and expenses	3,105 78 5,226 44
Telegraph expenses	5,888 43 18,784 68 1,725 00
Station supplies	1,725 00
Telegraph expenses Station service Station supplies. Switching charges—balance Car mileage—balance	721 91 1,184 69
Loss and damage	403 77
Injuries to persons	443 10 58 74 577 91
Clearing wrecks Advertising Outside agencies	577 91 2.496 50
Commissions.	4 40
Commissions. Stockyards and elevators. Rents for tracks, yards and terminals.	2 50 6,065 24
Rent of buildings and other property.	57 65 2,464 76
Stationery and printing	
Total	\$110,667 26

### GENERAL EXPENSES.

Salaries of general officers Salaries of cierks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes		
Other expenses		\$3,767 88 4,454 85 387 80 865 90 2,054 04 549 25
Taxes		259 19
		6,788 79
Total		\$19,127 20
•		
RECAPITULATION OF EXPENSES.	Per cent of expenses.	
Maintenance of way and structures	19.02	\$38,945 88
Maintenance of equipment.	17.61	36,065 93
Conducting transportation	54.08	110,667 26
General expenses, including taxes	9.34	19,127 20
Total operating expenses and taxes	100.00	\$204,805 77
Operating expenses and taxes per mile of road	613.70	
Operating expenses and taxes per train mile run, for trains, earning revenue,	9.4	
245,051 miles Proportion of operating expenses and taxes for Michigan	.01	204,805 77
•		
Total proportion of expenses for Michigan		\$204,805 77
Percentage of expenses to earnings.	86.03	
Not comings nor mile of road	00.47	
Net earnings per train mile.	.18	
DESCRIPTION OF ROAD.		
From Detroit to Howard City, August, 1871. From Stanton Junction to Big Rapids, July, 1880.		
From Kiddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.		
From Alddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888.		
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.	Miles.	Miles.
From Alddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.	<b>M</b> iles. 156. <b>6</b> 0	Miles.
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	Miles. 156.60
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	156.60	
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	68.30 1.67	
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.30 1.67	156.60
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BEANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company Total length of branches owned by company in Michigan.	63.30 1.67	156.60 64.97
From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in Michigan	63.30 1.67	156.60
From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in Michigan	63.30 1.67	156.60 64.97 221.57
From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City	63.90 1.67 64.97	156.60 64.97 221.57 221.57 86.32
From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in Michigan	63.90 1.67 64.97	156.60 64.97 221.57 221.57
From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of road belonging to this company in Michigan Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above cau Aggregate length of tracks in Michigan belonging to this company, comput	63.90 1.67 64.97	156.60 64.97 221.57 221.57 86.32
From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of road belonging to this company in Michigan Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above cau Aggregate length of tracks in Michigan belonging to this company, comput	63.30 1.67 64.97 merated ed as single	156.60 64.97 221.57 221.57 86.32
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1888. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs and other tracks not above enu Aggregate length of tracks in Michigan belonging to this company, comput track.  Gauge of track, 4 feet 8% inches.	63.30 1.67 64.97	64.97 221.57 221.57 86.32 307.89
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed.  BEANCHES.  From Stanton Junction to Big Rapids. From Kiddville to Belding.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs and other tracks not above enu Aggregate length of tracks in Michigan belonging to this company, comput track.  Gauge of track, 4 feet 8% inches.	63.30 1.67 64.97 merated ed as single	64.97 221.57 221.57 86.32 307.89
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in the tracks not above end Aggregate length in Michigan of sidings, spurs and other tracks not above end Aggregate length of tracks in Michigan belonging to this company, comput track.  Gauge of track, 4 feet 8% inches.	63.90 1.67 64.97 merateded as single	64.97 221.57 221.57 86.32 307.89
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in the tracks not above end Aggregate length in Michigan of sidings, spurs and other tracks not above end Aggregate length of tracks in Michigan belonging to this company, comput track.  Gauge of track, 4 feet 8% inches.	63.30 1.67 64.97 merated ed as single 7. Cotal miles. In 13.04 1.00 42.57	64.97 221.57 221.57 86.32 307.89
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in the tracks not above end Aggregate length in Michigan of sidings, spurs and other tracks not above end Aggregate length of tracks in Michigan belonging to this company, comput track.  Gauge of track, 4 feet 8% inches.	63.30 1.67 64.97 	64.97 221.57 221.57 86.32 307.89
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed.  BEANCHES.  From Stanton Junction to Big Rapids. From Kiddville to Belding.  Total length of branches owned by company.  Total length of branches owned by company in Michigan.  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs and other tracks not above enu Aggregate length of tracks in Michigan belonging to this company, comput track.  Gauge of track, 4 feet 8% inches.	63.30 1.67 64.97 merated ed as single 7. Cotal miles. In 13.04 1.00 42.57	64.97 221.57 221.57 86.32 307.89
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in Michigan  Total length of road belonging to this company in the tracks not above end Aggregate length in Michigan of sidings, spurs and other tracks not above end Aggregate length of tracks in Michigan belonging to this company, comput track.  Gauge of track, 4 feet 8% inches.	63.30 1.67 64.97 	64.97 221.57 221.57 86.32 307.89
From Riddville, to Belding, 1872. From Alma to Howard City, August, 1886. From Grand Ledge to Grand Rapids, August, 1888. From Oakdale Park to Reed's Lake, August, 1888.  MAIN LINE.  In Michigan, from West Detroit to Howard City.  Total length completed  BRANCHES.  From Stanton Junction to Big Rapids From Kiddville to Belding.  Total length of branches owned by company  Total length of branches owned by company in Michigan  Total length of road belonging to this company.  Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spurs and other tracks not above enu Aggregate length in Michigan of sidings, spurs and other tracks not above enu Aggregate length of tracks in Michigan belonging to this company, compute track.  Gauge of track, 4 feet 8% inches.  Proprietary or leased roads operated by this company  Name, description and length of each:  Detroit to Redford Junction (Union Station Association)  Lansing to North Lansing (J. L. & S. R. R.)  Alma to Howard City (S. & W. R. R.)  Grand Ledge to Grand Rapids (G. R. L. & D. R. R.)  Oakdale Park to Reed's Lake (G. R. L. & D. R. R.)	63.30 1.67 64.97 	156.60 64.97 221.57 221.57 86.32 307.89

Number of bridges and trestles in Michigan.	Aggregate
	Length, feet.
Wooden bridges 4 Iron bridges 25	
Wooden trestles 54	
Total 88	7,6601/4
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R. at Plymouth. Michigan Air Line R. R. at South Lyon. Ann Arbor R. R. at Howell Junction. Chicago & Grand Trunk R. R. at Trowbridge. Lowell & Hastings R. R. at Elmdale. Detroit, Grand Haven & Milwankee R. R. at Jonia. Toledo, Saginaw & Muskegon R. R. at Sheridan and Greenville. Grand Rapids & Indiana R. R. at Big Rapids and Grand Rapids. Michigan Central R. R. at Grand Rapids.	
At what crossings are interlocking and derailing switches in operation? Ann Arbor R. B. at Howell Junction. Chicago & Grand Trunk at Trowbridge. Lowell & Hastings at Eimdale. Toledo, Saginaw & Muskegon at Sheridan and Greenville. Michigan Central at Grand Rapids. Grand Rapids & Indiana at Grand Rapids. What pattern or patterns have you adopted? Gravitt and Union Switch and Signal Co.	
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings at which there are electric or automatic signals.  What pattern or patterns in use?  American Signal.	459 21 1
Number of crossings of highway over or under railroad : over 9, under 11	20
Have safety guards been erected at overhead obstructions? Yes.	•
Are your frogs and guard rails blocked as required by act 174, session laws 18837 Yes.	
How are they treated?  Hart guards and blocked with plank.	
Stations.	
Number of stations on whole lines.	80 80 •
Same in Michigan	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	1,146 1,142
Classify your employés as per following list:	•
	Number.
Baggagemen	9
Brakemen	9
BrakemenConductors	9
Brakemen	9
Brakemen Conductors Engineers Firemen Laborers	9
Brakemen	9 59 27
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen	9 59 27 45 47 447 86 82
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS.	9 59 27 45 47 447 86 82
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen	9 59 27 45 47 447 86 82
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS.	9 59 27 45 47 447 86 82
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS. Fencing in Michigan.  How many miles of fencing have you?	9 59 27 45 47 447 86 82 394
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS.  Fencing in Michigan.	9 59 27 45 47 447 86 82 394
Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS. Fencing in Michigan.  How many miles of fencing have you?	9 59 27 45 47 447 86 82 394

### ROLLING STOCK.

MODELING DIOCK		
		Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Number of locomotives of 10 to 20 tons weight, exclusive of tender.		5 \$122,500 00 8 20,000 00 1 1,000 00
Total	. 4	4 \$143,500 00
Number of passenger cars—12-wheel, including official cars. Number of passenger cars—8-wheel, including official cars. Number of express and baggage cars. Number of box freight cars. Number of stock cars. Number of platform cars. Number of conductors' way cars.	- 4 - 50 - 4	7 25,500 00 5 126,250 00 8 10,750 00 6 113,030 00
Other cars as follows: Tool	1 1 1 1 1 1 1 1 2 2	
	1	2,400 00
Total		7 \$549,150 00
Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  Number of freight cars equipped with power brakes.  What patterns of power brakes have you in use, and number of locomotives and each?		_ 13
Locomotives, Westinghouse Locomotives, New York Locomotives, Steam Locomotives, Vacuum Freight cars, Westinghouse Passenger cars, Westinghouse		5 - 4 - 1 - 13

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Gould automatic coupler.

 How are your passenger cars heated. Steam.

### MILEAGE TRAFFIC, ETC.

Train mileage.			
-		Entire lines. In	n Michigan.
Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains Total mileage of trains earning revenue.		111,168 12,318	138,888 111,168 12,318 245,051
Passenger traffic.—Road all in State of M	_	<b>A</b> =	
1	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue	4,459 113,269		
Total number of passengers carried, earning revenue	117,728		
Number of passengers carried one mile		80.317	\$0 74.489 02.625 02.434 02.457
Widtalle receibes her hessender her mitte tot am hessendere			

### Freight traffic.—Road all in State of Michigan.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 17,767 119,912	Miles.	Rate.
Total tons of freight carried, earning revenue	187,679		
Total mileage of through freight.  Total mileage of local freight.  Total freight mileage or tons carried one mile.  Average ton haul for through freight.  Average ton haul for all freight.  Average ton haul for all freight.  Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.		8,318,386 11,056,667 154.123 69.371 80.308	01.264

# FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

### . Company's material excluded.

g	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	8,197	1,101	4,298	3.12
Flour Other mill products	3,032 387	1,591	4,628	3.36
Other mill products	395	442 664	829 1,059	.60 .77
Hay Fruit and vegetables.	12,041	352	12,393	9.00
Products of animals:		1	1	
Live stock		540	4,330	3.14
Dressed meats	284	62	326	.24
Other packing house products  Poultry, game and fish	224 58	15	289	.17 .05
Poultry, game and usn	22	10	62	.02
Wool Hides and leather	390	283	678	.49
Products of mines:			!	
Anthracite coal	41	4,775	4.816	3.50
Bituminous coal	185	10,840	10,375	7.54
Salt.	120 19	1,723	200 1,742	.14 1.27
Products of forest:				
Lumber		10,507	61,806	44.89
Charcoal	47	101	148	.11
Manufactures: Petroleum and other oils	857	582	1,439	1.05
Iron, pig and bloom		330	330	.24
Iron and steel rails	39	23	62	O:
Other castings and machinery	640	697	1,837	.97
Bar and sheet metals	80		30	.02 .83 .63
Cement, brick and lime	606	566	1,172	.83
Agricultural implements		381	870 456	.03
Wagons, carriages, tools, etc.		183	845	.2
Wines, liquors and beers	4,561	2,410	6,971	5.00
Merchandise	5,883	2,863	8,246	5.99
Miscellaneous: Other commodities not mentioned above	7,722	748	8,470	6.1
Total tonnage	96,716	40,963	137,679	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. at an agreed rate. They handle their own freight at the railroad company's depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 673.38 miles. Detroit, Lansing & Northern R. R. Co.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE THREE MONTHS ENDING MARCH 81.

#### KILLED.

March 13. E. Ryder, conductor, Belding. Fell between cars; accidental.

#### INJURED.

March 18, James Bartlett, brakeman, Grand Rapids. Collision; mistook signal G. R. & I. track.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
Causes of accident.	Passengers.	Employés.	Others.	Passengers,	Employés.	Others.
CollisionsFalling from trains		i			1	
Total		1			1	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the three months	1
Number of persons injured during the three months  Number of casualties purely accidental.	1
Number resulting from lack of caution, carelessness or misconduct	Ī

### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen	i	1	1 1
Total	1	1	2

STATE OF MICHIGAN, \ SS.

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Detroit, Lansing & Northern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of March, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

CHAS. M. HEALD,

U. B. ROGERS.

Subscribed and sworn to before me this 17th day of April, A. D. 1897.

\$41,096 08

#### NINE MONTHS' REPORT

OF THE

#### RECEIVER OF

# DETROIT, LANSING & NORTHERN RAILWAY COMPANY.

For the year ending December \$1, 1896.

[Filed April 19, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

Auditor, U. B. ROGERS, Grand Rapids, Mich. General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich. Assistant Superintendent, T. H. MALONE, Ionia, Mich. Chief Engineer, J. J. MoVEAN, Grand Rapids, Mich. Cashier, JAS. E. HOWARD, Grand Rapids, Mich. General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich General Freight Agent, F. V. DAVIS, Grand Rapids, Mich. Attorney, WM. ALDEN SMITH, Grand Rapids, Mich. Receiver, CHARLES M. HEALD, Grand Rapids, Mich.

#### DIRECTORS.

See D., L. & N. R. R. Co. report for three month's ending March 31, 1896. See S. V. & St. L. R. R. Co. report for three month's ending March 31, 1896.

### REMARKS:

See D., L. & N. B. B. Co. report for three month's ending March 31, 1896. See S. V. & St. L. R. B. Co. report for three month's ending March 31, 1896.

### GENERAL EXHIBIT. Debit. Credit. **\$927**,786 45 \$785,774 40 \$142,012 05 Interest on unfunded debt. Rentals of buildings, tracks, etc. \$2,274 55 88,221 65 Balance for the nine months. 106,064 95 UNFUNDED DEBT. For what incurred. Is the same to be funded or how liquidated? Amount.

### RECAPITULATION.

Total unfunded debt			\$41,096 08
Total debt liabilities			\$41,096 08
Amount of debt liabilities per mile of road, 358.78 miles			114 54
OBNEDAT DATANCE GROWN	D-		
GENERAL BALANCE SHEET Construction account:			
D. L. & N. R. R. G. R., L. & D. R. R. S. & W. R. R. S. V. & St. L. R. R.	\$7,044,866 96 1,258,640 00 558,986 65 603,016 16		
Equipment account: D., L. & N. R. R. G. B., L. & D. R. R. S. & W. R. R. S. V. & St. L. B. R.	\$716,042 97 44,996 27 9,600 00 87,037 00	\$9,465,009 77	
	87,037 00	857,676 24	10,822,686 01
Cash items: Cash Due from agents		\$151,572 07 799 37	152,871 44
Other assets: Materials and supplies. Debit balances from companies and individuals.		\$24,027 17 10,144 49	34,171 <b>6</b> 6
Total			
GENERAL BALANCE SHEET.	-Cr.		
C. M. Heald, receiver.  Amount of balances brought forward from D. L. & N. and S. V. d Unfunded debt:	st. L. R. R	books.	10,362,068 08
Vouchers and accounts Profit and loss or income accounts			41,096 08 106,064 95
Total.	·		10,509,229 11
ANALYSIS OF BARNINGS.—ROAD ALL IN ST	1 TR OF W	OTTICAN	
	ALE OF MI	OHIGAN.	
Main line and branches:			
Local faresThrough fares		\$45,024 79 838,073 24	
Total passenger fares		<b>\$</b> 378,098 03	
Express and baggage		18,000 00 39,832 12	
Total passenger department earnings			\$435,980 15
Per train mile		\$0 88 1,150 76	
Main line and branches:			
Local traffic Through traffic.		\$388,463 57 92,499 01	
Total traffic		\$480,982 58	
Total freight department earnings			480,962 58
Per train mile Per mile of road		\$1 27 1,269 63	
Total transportation earnings, entire lines.  Transportation earnings per mile of road.  Transportation earnings per train mile.		\$2,420 89 1 02	\$916,892 78
•			

Miscellaneous receipts from operating account, other than for transportation, as follows:	
From telegraph companies \$5,013 89 From other sources 5,879 83	
	\$10,898 72
Total	\$927,786 45
Total earnings from operation of road	\$927,786 45
Total earnings from operation of road \$2,449 i5 Total earnings per mile of road \$1,08 Proportion of taxable earnings for Michigan 108 Total taxable earnings per mile of road in Michigan 1000 Income other than from earnings	927,786 45 2,449 15 2,274 55
Total income from ali sources	\$930,061 00
Proportion of income for Michigan	980,061 00
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$85,078 49
Renewals of rails.	85,140 52 66,652 48
Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of telegraph.	66,652 48 2,994 12
Repairs and renewals of fences, road crossings, signs and cattle guards	5,654 59 16,824 44
Repairs and renewals of buildings and fixtures	16,824 44
Repairs and renewals of telegraph	5,897 68 61 03
Stationery and printing Other expenses.	271 37
Total	\$218,574 72
4.000	
Superintendence	\$4,472 01 42,398 15 19,788 04 31,170 11 757 48
Repairs and renewals of locomotives.	42,398 15
Repairs and renewals of passenger cars	19,786 04
Repairs and renewal of Freight Cars	31,170 11 757 48
Ropairs and renewals of shop machinery and tools	4.700 42
	835 72
Other expenses.	6,216 51
Total	\$109,505 44
CONDUCTING TRANSPORTATION.	
Superintendence	\$13,550 95 69,039 77 75,924 14 4,802 61
Engine and roundhouse men	69,039 77
Fuel for locomotives	75,924 14
Water supply for locomotives	2,563 36
Other supplies for locomotives.	
Train service	48,359 50
Train service Train supplies and expenses Switchmen, flagmen and watchmen. Telegraph expenses	43,359 50 11,168 17 15,972 75 18,789 85 67,061 81
Switchmen, flagmen and watchmen.	15,972 75
Telegraph expenses	18,789 85
Station service	
Station supplies. Switching charges—balance Car mileage—balance.	2,668 51
Car mileage—balance	5 134 1X
Loss and damage	1,845 36
Loss and damage Injuries to persons Clearing wrecks Advertising	1,845 36 2,677 08 383 30
Ulearing wrecks	383 30 4,482 57
Umtside agencies	10,177 95
Commissions	25.52
Rents for tracks, yards and terminals	31,986 09
Commissions Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing	873 78 9,577 <b>36</b>
Total	\$397,849 11

### GENERAL EXPENSES.

s10,424 9
1,489 / 1 2,894 0 4,199 8 4,199 8 4,312 0 19,835 2 2 4,312 0 19,835 2 2 800,845 12 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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110.00
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70 00
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20.04
378.82
Aggregate
r. length, feet
7 458
26 2,7071/4 74 5,219
74 5,219
$\frac{28}{74} = \frac{2,707\%}{5,219}$ $\frac{3,384\%}{27}$

# Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R. at Plymouth. Michigan Air Line R. R. at South Lyon. Ann Arbor R. R. at Howell Junction and St. Louis. Chicago & Grand Tronk R. R. at Trowbridge. Lowell & Hastings R. R. at Eimdale. Detroit, Grand Haven & Milwankee R. R. at Ionia. Tolsdo, Saginaw and Muskegon R. R. at Sheridan and Greenville. Grand Rapids & Indiana R. R. at Big Rapids and Grand Rapids. Michigan Central R. R. at Grand Rapids. At what crossings are interlocking and derailing switches in operation? Ann Arbor R. R. at Howell Junction. Chicago & Grand Trunk R. R. at Trowbridge. Lowell and Hastings R. R. at Elmdale. Toledo, Saginaw and Muskegon R. R. at Sheridan and Greenville. Michigan Central R. R. at Grand Rapids. Grand Rapids and Indiana R. R. at Grand Rapids. What pattern or patterns have you adopted? Gravitt and Union Switch & Signal Co. Number of crossings of highways at grade in this State Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings at which there are electric or automatic signals What pattern or patterns in use? American Signal Co. Number of crossings of highways over or under railroad: Over 9, under 11. Number of highway bridges 18 feet above track:	505 21 1
Nine.  Have safety guards been erected at overhead obstructions?	
Yes.	
Are your frogs and guard rails blocked as required by act 174, session laws of 1883? Yes.	
How are they treated? Hart guards and blocked with plank.	
Stations.	
Number of stations on whole lines. Same in Michigan	80 80
Number of stations on whole lines. Same in Michigan  Employés.	80 80
Employés.  Number of persons regularly employed on all roads operated by company, including officials	1,112
Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	1,112 1,108 Number.
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen	1,112 1,108 Number.
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors	1,112 1,108 Number.
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors	1,112 1,108 Number.
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors Engineers Firemeu. Laborers	1,112 1,108 Number.
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen. Conductors Engineers. Firemeu. Laborers. Rhopmen. Yardmen.	1,112 1,108 Number.
Employés.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors Engineers. Firemeu. Laborers Shopmen Yardmen Others	1,112
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen. Conductors Engineers. Firemeu. Laborers. Shopmen. Yardmen. Others.	1,112 1,108 Number.
Employés.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors Engineers. Firemeu. Laborers Shopmen Yardmen Others	1,112 1,108 Number.
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemeu Laborers Shopmen Yardmen Others  REPAIRS AND BENEWALS.  Fencing in Michigan.	1,112 1,108 Number. 9 54 27 47 46 424 87 29 389
Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors Engineers. Firemen. Laborers Shopmen Yardmen Others  REFAIRS AND BENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.	1,112 1,108 Number. 9 54 27 47 46 424 87 29 389
Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors Engineers. Firemen. Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.  Average length of sections (miles).  5.50	1, 112 1, 108 Number. 9 54 27 47 46 424 87 29 389
Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors Engineers. Firemen. Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.  Average length of sections (miles).  5.50	1,112 1,108 Number. 9 54 27 47 46 424 87 29 389
Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen. Conductors. Engineers. Firemen. Laborers Shopmen Yardmen Others.  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.  Average length of sections (miles).  Average number of new ties put in track in Michigan the nine months.  Number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.	1,112 1,108 Number. 9 54 47 47 46 424 87 29 389
Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen.  Conductors. Engineers. Firemen. Laborers. Shopmen. Yardmen. Others.  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you?  Road bed and track.  Number of track sections in Michigan.  Average length of sections (miles).  Average number of men in each section gang.  Number of new ties put in whole line during the nine months.  Number of new ties put in track in Michigan.	1,112 1,108 Number. 9 54 427 47 46 424 87 29 389 724.14

### Bridges and culverts. Number. 12 13 Feet in Location. Kind. Material. Month built. length. 42 10 August ..... June..... June.... September. Wood 12 ROLLING STOCK. Present esti-Number, mated value. \$122,500 00 27,500 00 1,000 00 \$151,000 00 47 Number of passenger cars—12-wheel, including official cars. Number of passenger cars—8-wheel, including official cars. Number of express and baggage cars. Number of box freight cars. Number of stock cars. Number of platform cars. Number of oonductors' way cars. \$2,500 00 125,000 00 27,000 00 128,500 00 10,750 00 120,000 00 50 18 514 43 686 28 Other cars as follows: Tool....Painter......Kitchen..... Kitchen\_\_\_\_\_\_Store material\_\_\_\_\_ Tender to excavator. Road train sleeper Road train dining..... Excavator Carpenter\_\_\_\_\_\_Bridge gang 22 12 2.650 00 1.852 \$573,050 00 69 13 What patterns of power brakes have you in use, and number of lecomotives and cars with each? Locomotives, Westinghouse Locomotives, New York Locomotives, Steam Locomotives, Vacuum Freight cars, Westinghouse Passenger cars, Westinghouse 38

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887, Yes.

18

What pattern or patterns have you adopted for use? Gould automatic.

How are your passenger care heated. Steam.

# MILEAGE TRAFFIC, ETC.

# Train mileage.

Miles run by passenger trains during the year			Entire lines. 522,825 379,482 62,989 902,257
Passenger traffic.—Road all in State of	Michigan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	15,150 588,004		
Total number of passengers carried earning revenue	548,154		
Number of passengers carried one mile	18,592,754	88.919	
Average amount received from each passenger Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers			02.060 02.080
Freight traffic.—Road all in State of 1	lichigan.		
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	69,074 877,582		
Total tons of freight carried, earning revenue	446,606	•	
Total mileage of through freight  Total mileage of local freight  Total freight mileage or tons carried one mile	10, 81, 41,	294,398 369,190 363,588	
Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile for through freight Average receipts ton per mile for local freight Average receipts ton per mile for all freight			\$1 07.693 00.899 01.288

### FREIGHT TRAFFIC MOVEMENT.-BOAD ALL IN STATE OF MICHIGAN.

Company's material excluded.

O	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	25,970	2,680	28,650	6.41
Flour Other mill products	12,009	6,572	18,581	4.16
Other mill products	3,074	932	4,006	90
Hay	9,935	8,680	18,615	3.0
Hay Fruit and vegetables	31,268	10,443	41,711	9.3
Products of animals:				
Live stock	12,533	2,703	15,238	8.41
Other packing house products	423	9	432	.10
Other packing house products	197		197	.0
Ponitry, game and fish	1 368	46	414	.09
Wool. Hides and leather.	439	.83	522	.13
Hides and leather	1,228	887	2,115	.4
Products of mines:				
Anthracite coal Bituminous coal		17,949	17,949	4.0
Bituminous coal	370	32,252	32,622	7.3
Charcoal	72	245	317	.0
Stone, sand, and other like articles	2,786	373	3,159	.7
Salt	6,999	129	7,128	1.60
Products of forest:			400 000	
Lumber	139,729	27,109	166,838	37.30
Manufactures:	0.010	. 440	4 070	
Petroleum and other oils	2,916 19	1,442 179	4,358 198	.90
Iron, pig and bloom.		119	362	.0
Iron and steel rails. Other castings and machinery	2,823	3,116	5,939	1.3
Don and sheet matel	1 2,020	5,116	148	1.0
Bar and sheet metal		3,700	9.619	2.1
Cement, brick and lime	1.442	1,290	2,732	.6:
Agricultural implements Wagons, carriages, tools, etc	1,649	114	1.763	.3
Wines lieuene and beens	1,229	730	1.959	.4
Wines, liquors and beers. Household goods and furniture	10,121	6,689	16,810	8.76
Merchandise	23,579	6,065	29,644	6.6
Miscellaneous: Other commodities not mentioned above	16,532	3,048	19,580	4.8
Total tonnage	314,079	132,527	446,606	100.00

### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. at an agreed rate. They handle their own freight at the railroad company's depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

673.38. D., L. & N. R. R. 32.19. Western Union Telegraph Co.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE NINE MONTHS ENDING DECEMBER 31, 1896.

#### RILLED.

April 17, Oliver Warner, citizen, McCords. Team frightened at cars and ran over deceased; accidental. May 26, James Wills, citizen, Plymouth. Train frightened horse; accidental. June 27, Charles Lasber, citizen, Redford. Trespassers on track; struck by F. & P. M. train. September 5, Ed. Ross, brakeman, Portland. Crushed between cars; accidental. September 16, Frank Frost, engineer, Fowlerville. Collision; crew asleep; neglected orders. October 27, Robert Patterson, citizen, Ionia. Trespasser; struck by hand car. December 1, Alice Tatt, F. May Luce, citizens, Lyons. Struck at crossing; accidental. December 10, J. W. Younger, citizen, Portland. Fell from train; accidental.

#### INJURED.

April 10, Charles Williams, citizen, Sunfield. Climbing between cars; trespasser.

June 17, Mrs. S. Welch, citizen, Lakeview. Struck at crossing; accidental.

July 16, John E. Bourn, brakeman, Howard City. Alighting from moving train.

September 16, H. Bailey, engineer, F. H. Williams, Fireman, A. V. Broderick, brakeman, Fowlerville.

Collision; crew asleep; neglected orders.

September 14, Patrick Kennedy, fireman, Okemos. Collision; mistaking written order.

October 15, E. S. Wright, citizen, Elmdale. Foot hurt between bumpers while cars were being coupled.

November 21, Frank Lett, citizen, Grand Rapids. Stealing ride on train; fell off; tresspasser.

December 1, Anna Taft, citizen, Lyons. Struck at crossing; accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.			Injured.	
Causes of accident.	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Collisions Falling from trains. Getting on and off trains.	<u> </u>	1			4	
Highway crossings		1	2 2	1	1	<u>2</u>
Trespassers on tracks			2			
Total	1	2	6	1	5	4

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the nine months	9
Number of persons injured during the nine months	10
Number of casualties purely accidental.	10
Number resulting from lack of caution, carelessness or misconduct.	9
Trespassers and tramps killed or injured.	4

### CLASSIFICATION OF EMPLOYÉS.

### **EILLED OR INJURED IN MICHIGAN.**

	Killed.	Injured.	Total.
Brakemen Ragineers Firemen	1 1	2 1 2	8 2 2
Total	2	5	7

STATE OF MICHIGAN, } ss.

COUNTY OF ARRY,

Charles M. Heald, receiver, and U. B. Bogers, auditor, of the Detroit, Lansing & Northern railroad company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. of R. R.]

Signed,

CHAS. M. HRALD, U. B. ROGERS.

Subscribed and sworn to before me this 17th day of April, A. D. 1897.

[L. S.]

Ernest N. Weller,

Notary Public, Kent Co., Michigan.

#### THREE MONTHS' REPORT

#### OF THE

# GRAND RAPIDS, LANSING & DETROIT RAILROAD COMPANY,

For the three months ending March 31, 1896.

[Filed April 19, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass. Secretary, CHARLES MERRIAM, Boston, Mass. Treasurer, CHARLES MERRIAM, Boston, Mass. General Manager, CHAS. M. HEALD, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass. CHARLES MERRIAM, Boston, Mass. GEO. SHATTUCK, Boston, Mass. A. H. HARDY, Boston, Mass. H. H. HUNNEWELL, Boston, Mass. F. H. DAMON, Boston, Mass. CHAS. M. HEALD, Grand Rapids, Mich.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 17, 1887.
Number of stockholders at date of last election: 8.
Number of stockholders in Michigan at same date: 1.
Amount of full paid stock held in Michigan at same date: \$100 00.
Date of annual meeting of stockholders: Second Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Boston, Mass., and Grand Rapids, Mich.

#### REMARKS:

This road is leased and operated by the Detroit, Lansing & Northern R. R. Co.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$100.00  Par value of shares. \$100.00	\$450,000 00
Average price received per share	
Total amount paid in, as per books of the company	28,000 00
Paid in per mile of road owned by company, 55.54 miles	\$504 14

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of is	88 <b>7</b> 10.	Rate of interest.	When due.	Where payable.	Amount out- standing.
First mortgage bonds, Sep. 1, 1887		5≴	Sep. 1, 1927	Boston, Mass	\$1,108,000 00
	1	un fun d <b>e</b> d	DEBT.		
For what incurred. Is the same to be funded or how liquidated.				Amount.	
For construction	} To be	paid			\$167,636 27
	1	BCAPITUL	ATION.		
Fotal funded debt Fotal unfunded debt					\$1,108,000 00 167,696 27
Total debt liabilities					. \$1,275,636 27
Amount of debt liabilities per mile Fotal amount of stock and debt Stock and debt per mile of road					22,967 88 1,303,636 27 23,472 02
	INTERES	T ON THE	FUNDED DEBT.		
What is the amount of same due e was it paid for the last year? No if interest is in default state the y Default 1893	ears and	amounts a	s follows:		_ 27,700 00
co	ST OF	ROAD AN	D EQUIPMENT.		
TOTAL COST FOR CONSTRUCTION	ON AND B	QUIP <b>ME</b> NT	OF BOAD AND BRA	ANCHES BUILT BY C	OMPANT.
Fotal expended for construction a Average cost of construction per u Proportion of cost of construction	aile of ro	nd (not inc	luding sidings) 5	0.04 III1108	\$1,803,636 27 23,472 02 1,303,636 27
	DESC	RIPTION	OF ROAD.		
Date when the road was opened fo	r use bet	ween its p	resent termini:	August, 1888.	
		MAIN L	INB.		
Length completed in Michigan, Gr Total length completed		•	•		_
		BRANCE			•
Reed's Lake, from Oakdale Park t	o Pand's			2.5	9
Total length of branches owner					- - - 2.53
Total length of branches owned by  Total length of road belonging					
Total length of road belonging					
Total length of road belonging to a Aggregate length of sidings, spurs Same in Michigan	and other	r tracks n	ot above enumer	ated	. 10.77 7
track			<b></b>		_ 66.31
Gauge of track, 4 feet 81/2 inches.				<del></del>	

STATE OF MASSACHUSETTS, } 88.

Nathaniel Thayer, president, and Charles Merriam, secretary, of the Grand Rapids, Lansing & Detroit Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock and debt and other matters therein contained of said company, on the thirty-first day of March, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

N. THAYER, President, CHAS, MERRIAM, Secretary.

Subscribed and sworn to before me this 15th day of April, A. D. 1897.

F. H. DAMON, Notary Public.

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### THREE MONTHS' REPORT

#### OF THE

### SAGINAW & WESTERN RAILROAD COMPANY

For the three months ending March 81, 1996.

[Filed April 24, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
Secretary, JAMES E. HOWARD, Grand Rapids, Mich.
Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.

#### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
E. V. B. THAYER, Boston, Mass.
CHAS. F. ADAMS, Boston, Mass.
CHAS. MEREIAM, Boston, Mass.
GBO. O. SHATTUCK, Boston, Mass.
A. H. HARDY, Boston, Mass.
G. ST. L. ABBOTT, Boston, Mass.
J. A. BUENHAM, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire July 8, 1896.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 7, 1883. Number of stockholders at date of last election: 9. Number of stockholders in Michigan at same date, 1. Amount of full paid stock held in Michigan at same date: \$100.00. Date of annual meeting of stockholders: Second Wednesday in July. Fiscal year of company ends: December 31. General offices of the company are located at Grand Rapids, Mich.

### REMARKS.

This road is leased for thirty years from July 1, 1883, to the Detroit, Lansing and Northern Railroad Company, that company paying the interest on the bonds and a dividend of seven (7) per cent per annum on the stock of this company as rental.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association		\$675,000 00
Par value of shares.  Average price received per share.  Number of shares issued.  45	\$100 00 100 00	
Number of shares issued		\$4,500 00
Total amount paid in, as per books of the company		\$4,500 00
Paid in per mile of road owned by company, 42.57 miles.		105 71

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out- standing.
First mortgage bonds, 1883	6%	1913	Boston, Mass	\$566,000 00
	RECAPITUL	ATION.		
Total funded debt				<b>\$566,000 00</b>
Total debt liabilities Amount of debt liabilities per mile of road				566,000 00
Amount of debt liabilities per mile of road Total amount of stock and debt	, 42.57 miles			18,295 75 570,500 00
Stock and debt per mile of road				13,401 46
• • • • • • • • • • • • • • • • • • •				
INTERE	ST ON THE	FUNDED DEBT.		
What is the amount of same due each year				\$33,960 00
Was it paid for the last year? No.				
If interest is in default state the years and	amounts as	follows:		. \$16,980 00
In default 1893 In default 1894			••••	33,960 00
In default 1895				_ 33,960 00
In default 1896				16,980 00
COST OF	ROAD ANI	D EQUIPMENT	·.	
TOTAL COST FOR CONSTRUCTION AND E	QUIPMENT	OF BOAD AND B	RANCHES BUILT BY	COMPANY.
Total expended for construction and equip Average cost of construction per mile of ro Proportion of cost of construction for Micl	ment ad (not inc higan	luding sidings),	42.57 miles	\$568,586 65 13,356 51 568,586 65
DESC	CRIPTION	OF ROAD.		
Date when the road was opened for use being August, 1886.	tween its pr	esent termini:		
	MAIN LI	ne.		
Length completed in Michigan, Alma to H Total length of road belonging to this com Aggregate length of sidings, spurs, and oth	oward City pany in Mid er tracks no	chigant above enume	42.5 rated 10.5	
Aggregate length of tracks belonging to				_
Gauge of track, 4 feet 8½ inches.				

STATE OF MASSACHUSETTS, SS. COUNTY OF SUFFOLK,

Nathaniel Thayer, president, and James E. Howard, secretary, of the Saginaw & Western Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of March, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

N. THAYER, President.

JAMES E. HOWARD, Secretary.

Subscribed and sworn to before me this 22d day of April, A. D. 1897.

By N. THAYER.

[L. S]

J. H. DAMON, Notary Public.

STATE OF MICHIGAN, ss.

Subscribed and sworn to before me this 13th day of April, A. D., 1897, as to J. E. Howard.

[L. S.]

ERNEST W. WELLER,

Notary Public, Kent County, Michigan.

### ANNUAL REPORT

#### OF THE

# DETROIT & MACKINAO RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed April 23, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. D. HAWKS, Detroit, Mich.

Pice President, GEO. M. CROCKER, Detroit, Mich.

Secretary, A. H. GILLARD, New York City.

Auditor, GEO. M. CROCKER, Detroit, Michigan.

Treasurer, J. H. EMANUEL, Jr. New York City.

General Manager, J. D. HAWKS, Detroit, Mich.

General Superintendent, C. W. LUCE, East Tawas, Mich.

Chief Engineer, D. J. CAREY, Bay City, Mich.

Cashier, J. H. MOUNT, Detroit, Mich.

General Passenger and Freight Agent, T. G. WINNETT, Bay City, Mich.

General Counsel, DON M. DICKINSON, Detroit, Mich.

#### DIRECTORS.

C. H. COSTER, New York City.

E. N. GIBBS, New York City.

N. J. THOMAS, New York City.

H. B. Hollins, New York City.

J. D. HAWKS, Detroit, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 29, 1894. Number of stockholders at date of last election: 5. Number of stockholders in Michigan at same date: 1. Date of annual meeting of stockholders: Last Taesday in October. Fiscal year of company ends June 30. General offices of the company are located at Detroit, Michigan.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$400,622 86
Net income		\$119,520 63
Interest on funded debt	116,000 00	
Balance for the year Balance (loss) last year.	\$8,520 68 185,285 91	\$138,756 54
Items not included in above, as follows:  Construction and equipment, charged to income	\$55,683 19 3,782 82	\$100,100 US
Balance forward to next year.		59,466 01
		\$79,290 53

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$100 00  Number of shares issued \$20,450  Amount paid in on common \$2,00	
Total amount paid in, as per books of the company.  Paid in per mile of road owned by company, 296.4 miles.	2,045,000 00

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First lien bonds, May 1, 1895	4% 4%	June 1, 1995 June 1, 1995	New York	\$900,000 00 2,000,000 00
Total funded debt	•			\$2,900,000 00

### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For current balances		\$191,335 69

### RECAPITULATION.

Total funded debt	\$2,900,000 00 191,335 69
Total debt liabilities	\$3,091,335 69
Amount of debt liabilities per mile of road, 296.4 miles.  Total amount of stock and debt Stock and debt per mile of road, 296.4 miles	10,429 61 5,136,335 69 17,329 07

### GENERAL BALANCE SHEET.-DR.

Construction account.	\$4,666,335 4	7
Equipment account	311,817 1	8
Other investments:	445 000 0	
J. P. Morgan & Co., trust accounts.	115,002 9	
J. P. Morgan & Co., coupon accounts	43,000 0	
		- \$5,186,155 62
Cash items:		
Cash	\$28,213 5	
Bills receivable	4,676 6	l
Due from agents	8,985 6	l
		- 36,875 78
Other assets:		, 10
Materials and supplies	\$25,801 6	2
Debit balances from companies and individuals.	16,793 2	5
Done being of from companies and marriagem	10,.00 2	- 42,594 82
•		- 10,002 Ou
Total		\$5 215 626 22

# GENERAL BALANCE SHEET.—Cr.

Capital stock	\$2,000,000 00 2,900,000 00	
Funded debt Preferred stock	45,000 00	\$4,945,000 00
Unfunded debt:  Vouchers and accounts	\$19,888 76	41,020,000 00
Other liabilities (list as follows):	410,000 10	
Balance due on purchase of Alpena & Northern R. R.	171,446 98	191.335 69
Profit and loss or income accounts		191,335 69 79,290 53
Total.		\$5,215,626 22
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches but	ilt by compan	ψ.
Total expended for construction and equipment		\$4,978,152 68 16,695 38
. Average cost per mine or road (not including sidings), 200, a mines		10,083 32
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MI	ICHIGAN.	
PASSENGER BARNINGS.		
Main line and branches:  Local fares	\$75,412 61	
Express and baggage Mails	1,749 22	
Total passenger department earnings		\$90,501 0
Per train mile	<b>\$0</b> 59	
Freight Barnings.		
Main line and branches:  Local traffic	\$307.946.96	
Total freight department earnings		307.946 9
		• • • • • • • • • • • • • • • • • • • •
Per train mile Per mile of road	\$1 24 1,088 96	
Total transportation earnings, entire line		\$398,448 0
Transportation earnings per mile of road	\$1,844 29	ı
Transportation earnings per train mile Miscellaneous receipts from operating account, other than for transportation	1 00	2,174 8
Total		
Distribution of miscellaneous earnings between main line and leased or prop		
Distribution of miscentaneous saturings octaved main time and leased of blob	_ •	: Proportion
Less earnings on Alpena and Northern Division	cellaneous. \$146,752 94	for Michiga
Less earnings on 18 miles of main line, south of Emery Junction, built in 1896.		
		\$153,477 6
Total earnings per mile of road, 296.4	1 00	
		\$247,145 1
Proportion of taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan	838 82	9241,140

# ANALYSIS OF EXPENSES.

### MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph Stationery and printing Other expenses  Total  MAINTENANCE OF EQUIPMENT.  Superintendence. Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and nyinting	\$35,286 65 88,322 35 7,946 85 1,276 43 3,167 20 2,175 84 728 90 30 93 2,322 06 \$86,206 71 \$12,124 76 2,424 66 13,579 49 756 77
Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	756 77 759 96 33 20 6,410 08
Total	\$36,088 92
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses Switchmen, flagmen and watchmen	\$2,736 04 25,221 71 87,260 90 2,736 08 2,494 34 306 69 24,533 09
Station service Station service Station supplies Car mileage—balance Loss and damage	1,469 11 803 22 715 82 12,736 22 619 29 3,767 85 2,178 85 2,178 87 55 10
Injuries to persons Clearing wrecks Advertising Stationery and printing Other expenses	969 87 1,320 93 2,568 65
Total	\$122,601 81
GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Law expenses Stationery and printing (general offices) Other expenses Taxes	\$15,600 00 10,520 95 2,237 74 1,223 90 699 71 1,907 75 4,014 74
Ţotal	\$36,204 79
•	
RECAPITULATION OF EXPENSES.  Per cent of expenses.	!
Maintenance of way and structures       30.67         Maintenance of equipment       12.84         Conducting transportation       43.61         General expenses, including taxes       12.88	\$86,206 71 36,088 92 122,601 81 86,204 79
Total operating expenses and taxes. 100.00	\$281,102 23
Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 401,600 miles. Percentage of expenses to earnings. 70.19 Net earnings per mile of road. Net earnings per train mile	\$948 12 70
Net earnings per mue or road	408 24

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Bay City, Michigan, to La Roque City, Michigan, September 20, 1896.

MAIN LINE.	Miles.
In Michigan, from Bay City to La Roque	160.10
Total length completed	160.10
Branches.	
Rose City, from Emery Junction to Rose City	
Total length of branches owned by company in Michigan	186.30
Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company, computed as single track	296.40 30. 326.40
Gauge of track, 4 feet 81/4 inches.	
If north of parallel 44 of latitude:	
Give date road commenced to be built: Alpena & Northern, May, 1893; main line, 1896.	
Give date road completed: Alpena & Northern, September 23, 1894; main line, 1896.	
Give date road commenced to be operated: Alpena & Northern, November 18, 1893; main line, September 20, 1896.	
Where built from and to: Alpena & Northern from Alpena to Jackson Lake; main line south from Emery Junction.	
Give exact number of miles: Alpena & Northern 5£.70 miles; main line 18 miles.	

Number of	ď	bridges	and	trestles	in	Michigan.
-----------	---	---------	-----	----------	----	-----------

	Number.	Aggregate length, feet.
Wooden bridges	4	764
Iron bridges	8	1,553
Combination bridges	1	477
Wooden treatles	25	2,352
Total	38	5,146

#### Draw bridges in Michigan.

How many on your line? One.

Where located, when built and length of draw span? Bay City, 1896; 220 feet; over Saginaw river.

Character of structure? Truss.

Material of which constructed.

Height above water, and depth of water under bridge. 12 feet and 82 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Curved.

Do you require all trains to come to fall stop before crossing a draw, and how are they signaled? Yes. Red and white signals.

### Crossings .- Railroad and highway.

0708	ernye.—Indictions and myn	way.		
What railroads cross your road at gra- Au Sable & Northwestern R. R. at A Michigan Central R. R. at Pinconni Grand Trunk R'y at North Bay City.	u Sable. ng.	at locality?		
At what crossings are interlocking and Au Sable and Northwestern R. R. at Michigan Central B. R. at Pinconnin Grand Trunk R'y at North Bay City	l derailing switches in ope Au Sable. eg.	ration?		
What pattern or patterns have you ad Union Switch & Signal Company's.	opted?			
Number of crossings of highways at gr	ade in this State			188
Are your frogs and guard rails blocked Yes,	l as required by act 174, ses	sion laws of 1	8837	
How are they treated? With wooden blocks.				
	Stations.			
Number of stations on whole lines				53
Number of stations on whole lines				22
	W			
	Employés.			
Number of persons regularly emplo				331
Classify your employés as per followin	g list:		N	umber.
Baggagemen				5
Brakemen				32 14
ConductorsEngineers				17
Firemen				17
Laborers				133
Shopmen Yardmen				61 2
Others		· · · · · · · · · · · · · · · · · · ·		50
	REPAIRS AND RENEWALS.			
	Fencing in Michigan.			
How many miles of fencing have you?				180.5
			===	
	Road bed and track.			
Number of track sections in Michigan				82
Average lengths of sections, miles	n gang			ž
Average number of men in each section. Number of new ties put in track in Min Average number of new ties per mile o	chigan			41,596
Average number of new ties per mile o	f road, 296.4			140
New bridges built during the year—Nu	amber, 8.		-	
Location.	Kind.	Material.	Month built.	Feet in length.
<del></del>				<b></b>
Au Gres river	Truss and trestle	Wood	January	176
Rifle river	Through girder	Steel	February	110
Pine riverSaganing river	Plate "		June July	110 60
Pinconning river	44	44	**********	60
Kawkawlin river	m		October	105
Saginaw river	TrussPile trestle	Wood	August	672 144

#### ROLLING STOCK.

RULLING BIOCK.		
		Present esti-
	Number. I	nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	19	\$95,000 00 8,000 00
Total	20	\$98,000 00
Number of passenger cars—12-wheel, including official cars. Number of passenger cars—8-wheel, including official cars. Number of express and baggage cars. Number of box freight cars. Number of platform cars. Number of pondutors' way cars.	1 8 6 95 381	\$7,200 00 19,250 00 7,440 00 38,000 00 95,250 00 2,150 00
	•	2,150 00
Other care as follows: Timber trucks Detrick Flanger	250 1 1	16,250 00 1,800 00 350 00
Total	748	\$187,690 00
Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  Number of freight cars equipped with power brakes.		20 14 160

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse, 6 locomotives, 14 passenger cars, 160 freight cars.

American, 14 locomotives.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Gould.

How are your passenger cars heated? Smith & Owen and Baker hot water.

### MILEAGE, TRAFFIC, ETC.

Train mileage.	In Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains	137,400 200,210
Total mileage of trains earning revenue.	401,600
Passenger traffic.—Road all in State of Michigan.	
Total number of passengers carried, earning revenue	Rate.
Average distance carried. 44.7 Average amount received from each passenger. Average receipts per passenger per mile for all passengers.	\$1 03
Freight traffic.—Road all in State of Michigan.	
Number of tons of local freight carried, earning revenue	
Average ton haul for local freight 88 Average amount received for each ton haul. Average receipts ton per mile, for local freight	\$0 71 02

# FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

a	Freight originating	Freight received from	Total freigh	t tonnage.
Commedity	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain			1,750	.40
Flour Other mill products	·-	·	1,320	.82
Hay	·-		585 2,040	
Fruit and vegetables			170	
Potatoes				ˈ ːŏː
Products of animals:	1			
Live stock			2,090	.5
Dressed meata.			805	.1
Hides and leather			2,814	.7
Products of mines: Bituminous coal Stone, sand and other like articles Salt			1,878 2,130 494	.4 .6 .1
Products of forest:			61,720	14.2
Logs.				57.6
Shingles			80,530	18.8
•			1 31,111	
Manufactures:		i		
Petroleum and other oils			440	.1
Iron, pig and bloom		.	1,860	.4
Other castings and machinery	·-		2,638 13,870	.6 3.2
Cement, brick and lime		-	10,010	8.2
Merchandise		.	658	.1
Miscellaneous: Other commodities not mentioned above			4,900	1.1
Total tonnage	-		438,886	100.0

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. 40% of gross revenue. Freights taken at depot.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

138 miles. Western Union Telegraph Co.

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Blue Line Canada Southern Line	Rochester, N. Y.	210 59
Swift Befrigerator Transportation Co. George H. Hammond Co. Burton Stock Car Co. Merchants' Despatch Transportation Co.	Boston, Mass.	1 787
Empire Line National Car Co White Line Central Transit Co Canadian Pacific Despatch Red Line Transit Co	St. Albans, Vt.	21 01 2 98
Union Tank Line. Provision Dealers' Despatch Pearcy Grain Line Co. Pittsburg Plate Glass Co. J. E. B. Furniture Line	Minneapolis, Minn	6 30 1 75 1 26
Mather Horse & Stock Car Co.  Morris Coal and Transportation Co. Chicago Refrigerator Car Line American Refrigerator Transit Co. Kansas City Dressed Beef Line	Chicago, Ill. Cleveland, O. Chicago, Ill. St. Louis, Mo. Kansas City, Mo.	28 55 5 50 91

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

August 5, Mike Dwyer, lumberman, Hurst. Trespasser; company not responsible.

### INJURED.

August 20, Peter Rose, section foreman, Black River. Carelessness.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

		Killed.			Injured.	
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.
Highway crossings			i		1	
Total			1		1	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.	
Number of persons injured during the year	
Number resulting from lack of caution, carelessness, or misconduct	
Trespassers and tramps killed or injured	

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Isjured.	Total.
Laborers		1	
Total		1	

STATE OF MICHIGAN, } 88.

Jas. D. Hawks, president, and George M. Crocker, auditor of the Detroit & Mackinac Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JAMES D. HAWKS, GEORGE M. CROCKER.

Subscribed and sworn to before me this 22d day of April, A. D. 1897.

[L. S.

NICHOLAS J. FLEMING, Notary Public, Wayne County, Michigan. When purchased by present company:
April 16, 1895.

# ANNUAL REPORT

OF THE

# DETROIT & MACKINAC BAILWAY COMPANY,

# [ALPENA & NORTHERN DIVISION,]

For the year ending December \$1, 1896.

[Filed April 23, 1897.]

#### COST OF BOAD AND EQUIPMENT.

#### PURCHASED BY PRESENT COMPANY.

April 10, 1000.		
Original cost to present company of road and equipment		\$825,000 00
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN		
Main line and branches:		
Local fares. \$11,98 Mails 1,106	1 70 3 32	
Total passenger department earnings		\$13,098 02
Main line and branches:		
Local traffic \$183,590	92	
Total freight department earnings	- <b></b>	133,599 92
Total transportation earnings entire line.		\$146,692 94
From other sources		60 00
Total		\$146,752 94
DESCRIPTION OF BOAD.		,
MAIN LINE. Mi	les.	Miles.
In Michigan, from Alpena to La Boque		29.
BRANCHES.		
	5. <b>7</b> 0 0.	
Total length of branches owned by company		55.70
Total length of road belonging to this company		84.70
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerate. Aggregate length of tracks in Michigan belonging to this company computed as single t	d rack	7.05 91.75

Gauge of track, 4 feet 8% inches.

If north of parallel 44 of latitude:

Give date road commenced to be built: May, 1893.

Give date road completed: September 28, 1894.

Give date road commenced to be operated: November 1893.

Where built from and to: Alpena to La Roque.

Give exact number of miles: 84.7.

STATE OF MICHIGAN, Ss. County of Wayne,

James D. Hawks, President, and George M. Crocker, auditor of the Detroit & Mackinso Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. R.] Signed, JAMES D. HAWKS,
GEORGE M. CROCKER.

Subscribed and sworn to before me this 22d day of April A. D. 1897. [L. S.]

NICHOLAS J. FLEMING,
Notary Public, Wayne County, Mich.

#### ANNUAL REPORT

OF THE

# DETROIT & MACKINAC RAILWAY COMPANY,

[EMERY JUNCTION TO PARALLEL 44 OF LATITUDE,]

For the year ending December 81, 1896.

[Filed April 23, 1897.]

#### ANALYSIS OF EARNINGS .- ROAD ALL IN STATE OF MICHIGAN.

#### PASSENGER EARNINGS.

Main line and branches: Total passenger department earnings	\$1,344 95
FREIGHT EARNINGS.	
Total freight department earnings	5,879 80
Total transportation earnings, entire line.	\$6,724 75
DESCRIPTION OF ROAD.	
MAIN LINB.	Miles.
In Michigan, from Emery Junction to Parallel 44.	18
If north of parallel 44 of latitude: Yes.	
Give date road commenced to be built: 1896.	
Give date road completed: 1896.	
Give date road commenced to be operated: September 20, 1896.	
Where built from and to: Emery Junction to parallel 44.	
Give exact number of miles: 18.	

STATE OF MICHIGAN, BB.

Main line and branches.

James D. Hawks, President, and George M. Crocker, Auditor of the Detroit & Mackinac Bailway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

JAMES D. HAWKS, GEORGE M. CROCKER.

Subscribed and sworn to before me this 22d day of April, A. D. 1897.

NICHOLAS J. FLEMMING,
Notary Public, Wayne County, Mich.

### ANNUAL REPORT

OF THE

# DULUTH, SOUTH SHORE & ATLANTIC RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed April 5, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, GEN. SAMUEL THOMAS, New York, N. Y.

First Vice President, HON. CALVIN S. BEICE, New York, N. Y.

Second Vice President, SIR WILLIAM C. VAN HORNE, Montreal, Canada.

Secretary, GEO. H. CHURCH, New York, N. Y.

Auditor, A. E. DELF, Marquette, Mich.

Treasurer, E. W. ALLEN, Marquette, Mich.

General Manager, WM. F. FITCH, Marquette, Mich.

Superintendent, C. E. LYTLE, Marquette, Mich.

Division Superintendents, { A. M. SUTHERLAND, Thomaston, Mich.

Chief Engineer, H. J. PAYNE, Marquette, Mich.

General Passenger Agent, GEO. W. HIBBARD, Marquette, Mich.

General Freight Agent, WM. ORR, Duluth, Minn.

Attorney, A. B. ELDREDGE, Marquette, Mich.

#### DIRECTORS.

GEN. SAMUEL THOMAS, New York, N. Y.
HON. CALVIN S. BRICE, New York, N. Y.
SIE DONALD A. SMITH, Montreal, Canada.
SIE WILLIAM C. VAN HORNE, Montreal, Canada.
THOS. G. SHAUGHNESSY, Montreal, Canada.
JAS. O. BLOSS, New York, N. Y.
JOHN W. STERLING, New York, N. Y.
WALTER WATSON, New York, N. Y.
THOS. W. PRAESALL, New York, N. Y.
GEO. H. CHURCH, New York, N. Y.
WILLIAM F. FITCH, Marquette, Mich.
Terms expire June 3, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 7, 1837.
Number of stockholders at date of last election: 310.
Number of stockholders in Michigan at same date: 15.
Amount of full paid stock held in Michigan at same date: 9,840 shares.
Date of annual meeting of stockholders: First Tuesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Marquette, Mich.

	GENI	ERAL E	XHIBIT.	Debit	Credit.
Total earnings from operation					\$1,905,810 53
Total expenses including taxes				\$1,278,142 14	
Net income					\$632,668 89
Interest on funded debt				856 47 229,286 45 960,775 48	32,402 20
ANA	LYSIS	OF CAL	PITAL STOCK.		
Amount authorized by charter or artic	les of a	ssociati	on		\$22,000,000 00
Par value of shares				\$100 00	
Par value of shares Number of shares issued Amount paid in on common Amount paid in on preferred			220,000	<b>e</b> 19 000 000 0	
Amount paid in on preferred				10,000,000 00	5
Total amount paid in, as per books	of the	compan	<b>7</b>		\$22,000,000 00
Paid in per mile of road owned by com	Dany 57	71.71 mile	88		88,481 05
ANA	LYSIS	OF DE	BT ACCOUNTS.		
	-		- Sertion		
	r	UNDED I	EBT.	•	
Class, character and date of issue		Rate of nterest.	When due.	Where payable.	Amount outstanding.
D., S. S. & A. first mort's, Jan. 1, 1887 D., S. S. & A., first consols., July 17, 18 M., H. & O., 68 mort's bonds Apr. 1, 18 D., S. S. & A. 20 year income certifici	90 85 a tes,	5% 4% 6%	Jan. 1, 1987 Aug. 1, 1990 April 1, 1925	New York, N. Y New York, N. Y	\$3,947,000 00 14,976,000 00 1,077,000 00
Dec. 31, 1892		none. none. none. none.	Dec. 31, 1912 Dec. 1, 1903 Oct. 1, 1905 Feb. 1, 1906 April 1, 1906	Toronto, Ont Toronto, Ont Toronto, Ont	8,000,000 00 71,394 54 91,792 98 279,050 53 236,213 19
Total funded debt					\$23,678,451 24
	UNI	FUNDED	DEBT.		
For what incurred.	Is the	same to	be funded or ho	w liquidated?	Amount.
For construction For equipment For accrued interest on bonds For miscellaneous For current balances					\$86,500 00 19,000 00 265,755 00 8,121,748 12 396,503 51
Total unfunded debt					\$3,889,501 63
		CAPITUL			
Total funded debt	· · · · · · · · · · · · · · · · · · ·				\$23,678,451 24 8,889,501 68
Total debt liabilities					\$27,567,952 87
Amount of debt liabilities per mile of Total amount of stock and debt	road 57 1 miles	11.71 mile	08		48,220 17 49,567,952 87 86,701 22

# GENERAL BALANCE SHEET.-Dr.

GENERAL BALANCE SHEEL.—DE.		
Construction account Equipment account		42,522,089 78
Other investments:		2,383,978 80
Mackinac Transportaton Co.  Lake Superior Terminal & Transfer R'y  Lake Michigan & Lake Superior B'y  Duluth Manufacturing Co.	\$235,2'8 63 18,100 00 7,662 68 2,887 00	
Lake Superior Terminal & Transfer R'y	18,100 00 7,662 68	
Duluth Manufacturing Co.	2,887 00	
Ropes Gold Mining Co	250 UU 250 00	
Ropes Gold Mining Co. Sault Ste. Marie Bridge Co. Mineral Range R. B. Co. Duluth & Winnepeg R. B. Co.	851,195 00	
Duluth & Winnepeg R. B. Co	351,195 00 2,087,479 47 25,000 0	
M. H. & O. lands	11,881 76 343,509 86	
Special equipment, 600 ore cars	343,509 66	3,082,944 40
Cash items:	en 707 90	•
Cash Due from agents	\$9,707 20 42,831 45	
		52,538 <b>6</b> 5
Other assets:  Materials and supplies Debit balances from companies and individuals	\$153,071 25	
Debit balances from companies and individuals	245,675 34	898,746 59
Therefore and love		1,177,659 65
Profit and loss.		
Total		149,567,952 87
GENERAL BALANCE SHEET.—Cr.		
Capital stock		22.000.000 00
D., S. S. & A. first mortg. 5% bonds.  D., S. S. & A. consols. 4% bonds.  M. H. & O. 6% mortg. bonds.  D., S. S. & A. 4% income certificates	14.976.000 00	
M. H. & O. 6% mortg. bonds.	1,077,000 00	
D., S. S. & A. 45 income certificates	71,394 54	•
Car trust notes 2d seriesCar trust notes, 3d series	71,394 54 91,792 98	
Car trust notes, 4th series.	279,050 53 236,213 19	
		23,678,451 27
Unfunded debt:	****	
Interest unpaid	\$265,755 00 715,500 00	
Notes payable Vouchers and accounts.	426,656 88	
Other liabilities:		3,889,501 63
Miscellaneous loans	\$2,481,589 75	
Total		\$49,567,932 87
COM AN DALD AND HOTTOWHIM		
COST OF ROAD AND EQUIPMENT.	•	
Total cost for construction and equipment of road and branches but	ilt by comp	ny.
Total expended for construction and squipment		\$44,856,068 58
Total expended for construction and equipment  Average cost per mile of road (not including sidings) 571.71 miles  Proportion of cost for Michigan, 465.18 miles		78,459 47
Proportion of cost for michigan, sould mines		=======================================
CHARGES AND CREDITS TO PROPERTY DURING THE	E YEAR.	
MAIN LINE.		
		<b>604 A6A C</b> 4
Land and right of way and extensions and new sidings  Refunding bonded debt.  New buildings.		88 881 KA
New buildings		3,667 54 4,708 29 759 86
New fences.  Machinery and tools  New locomotives.		759 86
New locomotives	••••••	2,872 21
Total		\$119,739 26
Total charges to property account as above		119,789 26
Property sold and credited		_ 1,283 00
Net addition to property account		110, 101 20

# ANALYSIS OF EARNINGS—IN STATE OF MICHIGAN.

Passenger Barnings.		
Main line and branches : Local fares Through fares	\$290,938 64 137,286 47	
Total passenger fares	\$428,225 11	
Express and baggage	85,137 29 43,513 67	
Total passenger department earnings		\$506,876 07
Per trein mile	\$0 84.26 1,067 04	
Main line and branches:		
Local traffic Through traffic	698,199 52 491,949 32	
Total traffic	\$1,190,148 84 4,619 60	
Total freight department earnings		1,194,768 44
Per train mile	\$1 69.95 2,515 14	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
PASSENGEE BARNINGS		
Local fares Through fares	\$312,087 92 159,705 40	
Total passenger fares	\$471,793 32	
Express and baggage	39,338 69 51,871 83	
· Total passenger department earnings		\$563,023 84
Per train mile Per mile of road.	\$0 82 <b>956 99</b>	
Main line and branches:		
Local traffic Through traffic	723,313 <b>6</b> 0 582,025 <b>52</b>	
Total trafficOther sources, freight department	\$1,903,339 12 4,619 60	
Total freight department earnings		1,309,958 72
Per train mile Per mile of road.	\$1 61.80 2,226 57	
Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile Miscellaneous receipts from operating account, other than for transportation From car mileage halance. From rents of tracks, yards and terminals. From rents not otherwise provided for	\$3,182 06 1 25.18 as follows: \$3,940 94 3,586 80 25,300 23	\$1,872,982 56
Total		32,827 97
Distribution of miscellaneous earnings between main line and leased or propr	ietary roads: Fotal mis- ellaneous, f	
Duluth, South Shore & Atlantic Railway	\$32,827 97	\$7,124 78
Total earnings from operation of road  Total earnings per mile of road  Total earnings per train mile.  Proportion of taxable earnings for Michigan	\$3,239 86 1 27.87 708,769 29 3,597 18 32,402 20	\$1,905,810 58
Total income from all sources		\$1,938,212 78

# ANALYSIS OF EXPENSES.

MAINTENANCE	OF WAY	AND	STRUCTURES.

EMINIENANCE OF WAI AND BIEUCIUMES.	
Repairs of roadway	\$216,678 58 31,015 64
Renewals of ties	31.015 64
Renairs and renewals of bridges and culverts	41,524 18
Pensius and sonewals of fances weed ourselves signs and acttle growds	940 75
Departs and renewals of teneous, road crossings, signs and cases guards	4 910 70
Websits and Leuewars of onlighted and uxtures	1,000 10
Renewals of ties  Renewals of ties  Repairs and renewals of bridges and culverts  Repairs and renewals of ences, road crossings, signs and cattle guards  Repairs and renewals of buildings and fixtures  Repairs and renewals of docks and wharves  Repairs and renewals of telegraph  Stationery and printing  Other expenses	4,850 70 7,470 16
Repairs and renewals of telegraph	2,610 47
Stationery and printing.	125 47
Other expenses	10 37
·	
Total	\$305,226 22
MAINTENANCE OF EQUIPMENT.	
G	e0 01F 07
Substitute and ence	30,013 91
Repairs and renewals of locomotives	58,834 82
Repairs and renewals of passenger cars	\$8,015 97 53,834 82 17,973 98
Repairs and renewals of freight cars	58,497 89
Repairs and renewals of work cars	4,239 92
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop, machinery and tools Stationery and printing Other expenses	4,488 51
Stationery and printing	193 83
Other avenues	6,219 95
Value	
Total	\$153,418 87
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	41001210 01
CONDUCTING TRANSPORTATION.	
	ADD 000 10
Superintendence Engine and roundhouse men.	\$27,920 40
Kngine and roundhouse men	144,253 84
Fuel for locomotives	144,253 84 159,143 78
Water supply for locomotives.	11,862 46
Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives.	11,862 46 4,091 38
Train service	97,672 28 16,936 70
Their survives and avnenges	16 996 70
Train service. Train supplies and expenses Switchmen, flagmen and watchmen	43,062 84
Malana Languet and watering	81,580 48
1 elegraph expenses.	81,580 48
Station service	83,670 12 9,559 02 7,265 73
Station supplies	8,559 UZ
Station service Station supplies. Switching charges—balance Loss and damage.	7,265 78
Loss and damage	5,887 57
Injuries to persons	4,874 86
Clearing wrecks	4,874 86 773 55
Onesettes marina espinment	
Obergons marine administrations of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction	26,924 78
Advertising	2,839 87
Injuries to persons Clearing wrecks Operating marine equipment Advertising Outside agencies	2,839 87 8,268 48
Rents for tracks, yards and terminals	8,295 <b>48</b> 10,717 55
Rents for tracks, yards and terminals	8,295 <b>48</b> 10,717 55
Rents for tracks, yards and terminals	8,295 <b>48</b> 10,717 55
Rents for tracks, yards and terminals	8,295 <b>48</b> 10,717 55
Advertising. Outside agencies Hents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses.	8,295 <b>48</b> 10,717 55
Outside agencies  Bents for tracks, yards and terminals.  Rent of buildings and other property  Stationery and printing.  Other expenses	5,286 48 10,717 55 5,115 00 10,812 14 129 62
Rents for tracks, yards and terminals	5,286 48 10,717 55 5,115 00 10,812 14 129 62
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing. Other expenses.  Total	5,286 48 10,717 55 5,115 00 10,812 14 129 62
United agencies  Bents for tracks, yards and terminals.  Rent of buildings and other property  Stationery and printing.  Other expenses.  Total  GENERAL EXPENSES.	5,286 45 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61
United agencies  Bents for tracks, yards and terminals.  Rent of buildings and other property  Stationery and printing.  Other expenses.  Total  GENERAL EXPENSES.	5,286 45 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61
United agencies  Bents for tracks, yards and terminals.  Rent of buildings and other property  Stationery and printing.  Other expenses.  Total  GENERAL EXPENSES.	5,286 45 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61
Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies	5,286 35 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 \$15,375 00 22,519 93 2,437 86
Outside agencies Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses  Total  General Expenses.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance	5,286 36 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 \$15,375 00 22,5719 93 2,437 86
Outside agencies Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses  Total  General Expenses.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance	5,286 36 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 \$15,375 00 22,5719 93 2,437 86
Rents for tracks, yards and terminals.  Rent of buildings and other property  Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Law expenses.  Law expenses.  Stationery and printing (general offices).	5,286 36 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 \$15,375 00 22,5719 93 2,437 86
Outside agencies Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses  Total  General officers Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Linsurance Law expenses Stationery and printing (general offices) Other expenses	5,286 36 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 \$15,375 00 22,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90
Outside agencies Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses  Total  General officers Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Linsurance Law expenses Stationery and printing (general offices) Other expenses	5,286 36 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 \$15,375 00 22,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90
Rents for tracks, yards and terminals.  Rent of buildings and other property  Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Law expenses.  Law expenses.  Stationery and printing (general offices).	\$10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 
Outside agencies Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses  Total  General officers Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Linsurance Law expenses Stationery and printing (general offices) Other expenses	5,286 36 10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 \$15,375 00 22,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90
Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes	\$10,717 55 5,115 00 10,812 14 129 62 \$714,218 61 
Unitatic agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total	\$15,375 00 25,519 36 24,437 86 24,437 86 25,428 71 22,321 40 38,462 47 \$100,288 44
Bents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing. Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent	\$100,288 44
Unitatic agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total	\$100,288 44
Rents for tracks, yards and terminals. Rents of buildings and other property Stationery and printing. Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses.	5,289 35 10,717 55 5,115 00 10,812 14 129 62  \$714,218 61  \$15,375 00 25,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90 38,462 47 \$100,283 44
Bents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies Insurance. Law expenses. Stationery and printing (general offices). Other expenses  Total.  RECAPITULATION OF EXPENSES.  Per cent expense Maintenance of way and structures.	5,289 35 10,717 55 5,115 00 10,812 14 129 62  \$714,218 61  \$15,375 00 25,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90 38,462 47 \$100,283 44
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing. Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures. Maintenance of equipment.	5,289 35 10,717 55 5,115 00 10,812 14 129 62  \$714,218 61  \$15,375 00 25,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90 38,462 47 \$100,283 44
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing. Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures. Maintenance of equipment.	5,289 35 10,717 55 5,115 00 10,812 14 129 62  \$714,218 61  \$15,375 00 25,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90 38,462 47 \$100,283 44
Bents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES.  Per cent expense Maintenance of way and structures.  Maintenance of equipment.  23 Maintenance of equipment.  56 Conducting transportation	\$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44
Rents for tracks, yards and terminals Rents for tracks, yards and terminals Rents for tracks, yards and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES. Per cent expense Maintenance of way and structures Maintenance of equipment. 22 Maintenance of equipment. 23 Conducting transportation General expenses, including taxes. 7	\$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44  \$100,288 44
Rents for tracks, yards and terminals Rents for tracks, yards and terminals Rents for tracks, yards and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES. Per cent expense Maintenance of way and structures Maintenance of equipment. 22 Maintenance of equipment. 23 Conducting transportation General expenses, including taxes. 7	5,289 35 10,717 55 5,115 00 10,812 14 129 62  \$714,218 61  \$15,375 00 25,519 93 2,437 86 6,922 71 5,428 17 2,321 40 3,815 90 38,462 47 \$100,283 44
Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES. Per cent expense Maintenance of way and structures. Maintenance of equipment. 12 Conducting transportation General expenses, including taxes. 7 Total operating expenses and taxes.	\$100,283 44  \$100,283 44  \$100,283 44  \$100,283 44  \$100,283 44  \$100,283 44
Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES. Per cent expense Maintenance of way and structures. Maintenance of equipment. 12 Conducting transportation General expenses, including taxes. 7 Total operating expenses and taxes.	\$100,283 44  \$100,283 44  \$100,283 44  \$100,283 44  \$100,283 44  \$100,283 44
Bents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Total  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23	\$15,375 00 22,519 93 22,519 93 22,519 93 22,519 93 22,519 93 24,437 86 6,922 71 5,428 17 2,321 40 3,815 97 88,462 47 \$100,283 44  60f 98. 97 \$305,226 22 05 153,418 87 714,218 61 88 100,283 44
Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23	\$15,375 00 22,519 93 22,519 93 22,519 93 22,519 93 22,519 93 24,437 86 6,922 71 5,428 17 2,321 40 3,815 97 88,462 47 \$100,283 44  60f 98. 97 \$305,226 22 05 153,418 87 714,218 61 88 100,283 44
Rents for tracks, yards and terminals Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes  RECAPITULATION OF EXPENSES. Per cent expense Maintenance of way and structures. Maintenance of equipment.  12 Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	\$15,375 00 22,519 93 22,519 93 22,519 93 22,519 93 22,519 93 24,437 86 6,922 71 5,428 17 2,321 40 3,815 97 88,462 47 \$100,283 44  60f 98. 97 \$305,226 22 05 153,418 87 714,218 61 88 100,283 44
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures. Maintenance of equipment.  12 Conducting transportation.  Solution of equipments.  Total operating expenses and taxes.  Total operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 miles.  Proportion of operating expenses and taxes for Michigan, main line.	\$100,283 44  \$10,285 45  \$1,115 00  10,812 14  129 62  \$714,218 61  \$15,375 00  22,519 93  2,437 86  6,922 71  5,423 10  3,815 90  88,462 47  \$100,283 44  6 of 88.  97 \$305,226 22  05 153,413 87  10 714,218 61  88 100,283 44  99  1,106,574 90
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures. Maintenance of equipment.  12 Conducting transportation.  Solution of equipments.  Total operating expenses and taxes.  Total operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 miles.  Proportion of operating expenses and taxes for Michigan, main line.	\$100,283 44  \$10,285 45  \$1,115 00  10,812 14  129 62  \$714,218 61  \$15,375 00  22,519 93  2,437 86  6,922 71  5,423 10  3,815 90  88,462 47  \$100,283 44  6 of 88.  97 \$305,226 22  05 153,413 87  10 714,218 61  88 100,283 44  99  1,106,574 90
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures. Maintenance of equipment.  12 Conducting transportation.  Solution of equipments.  Total operating expenses and taxes.  Total operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 miles.  Proportion of operating expenses and taxes for Michigan, main line.	\$100,283 44  \$10,285 45  \$1,115 00  10,812 14  129 62  \$714,218 61  \$15,375 00  22,519 93  2,437 86  6,922 71  5,423 10  3,815 90  88,462 47  \$100,283 44  6 of 88.  97 \$305,226 22  05 153,413 87  10 714,218 61  88 100,283 44  99  1,106,574 90
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures. Maintenance of equipment.  12 Conducting transportation.  Solution of equipments.  Total operating expenses and taxes.  Total operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 miles.  Proportion of operating expenses and taxes for Michigan, main line.	\$100,283 44  \$10,285 45  \$1,115 00  10,812 14  129 62  \$714,218 61  \$15,375 00  22,519 93  2,437 86  6,922 71  5,423 10  3,815 90  88,462 47  \$100,283 44  6 of 88.  97 \$305,226 22  05 153,413 87  10 714,218 61  88 100,283 44  99  1,106,574 90
Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing.  Other expenses.  Total.  GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses. Taxes.  Total.  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures. Maintenance of equipment.  12 Conducting transportation.  Solution of equipments.  Total operating expenses and taxes.  Total operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 miles.  Proportion of operating expenses and taxes for Michigan, main line.	\$100,283 44  \$10,285 45  \$1,115 00  10,812 14  129 62  \$714,218 61  \$15,375 00  22,519 93  2,437 86  6,922 71  5,423 10  3,815 90  88,462 47  \$100,283 44  6 of 88.  97 \$305,226 22  05 153,413 87  10 714,218 61  88 100,283 44  99  1,106,574 90
Bents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total  GENERAL EXPENSES.  Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Total  RECAPITULATION OF EXPENSES. Per cent expenses Maintenance of way and structures Maintenance of equipment Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23 Operating expenses and taxes per train mile run for trains earning revenue, 1,496,23	\$100,283 44  \$10,285 45  \$1,115 00  10,812 14  129 62  \$714,218 61  \$15,375 00  22,519 93  2,437 86  6,922 71  5,423 10  3,815 90  88,462 47  \$100,283 44  6 of 88.  97 \$305,226 22  05 153,413 87  10 714,218 61  88 100,283 44  99  1,106,574 90

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Marquette to Ishpeming, 1857. From Marpuette to Champion, June, 1865. From Humboldt to Republic, Sept., 1872. From Champion to L'Anse, Dec., 1872. From St. Igaace to Marquette, Dec., 1881. From L'Anse to Houghton, July, 1883. From Marquette to Winthrop Junetion, June, 1884. From Sault Ste. Marie to Soo Junction, Oct., 1887. From Nestoria to Iron River, September, 1888. From Iron River to West Superior, Dec., 1892. Palmer Branch, Aug., 1888. Bay Mills Branch, May, 1891.
Bay Mills Branch, May, 1891. Bessemer Branch, Nov., 1888. Newberry Asylum Branch, June, 1894.

MAIN LINE.	
Miles.	Miles.
In Michigan, from Sault Ste. Marie to Wisconsin State line	
In Michigan, from St. Ignace to Soo Junction 42.97	
In Michigan, from Nestoria to Houghton 48.24	
In Michigan, from St. Ignace to Soc Junction 42.97 In Michigan, from Nestoria to Houghton 48.24 In Michigan, from Marquette to Winthrop Junction 17.33	410.01
In Wisconsin, from Michigan State Line to West Superior	410.91 106.53
Total length completed	517.44
Length of double track on main line.	2.46
Branches.	
Palmer Negannes to Volunteer Mine	6.09
Palmer, Negaunee to Volunteer Mine Bay Mills, Bay Mills Station to Hall & Munson Mills.	2.25
Republic, Humboldt to Republic  Bessemer, Bessemer Junction to end of track	8.70
Bessemer, Bessemer Junction to end of track.	2.06 2.37
Newberry Asylum Branch Hall, Munson & Perry Branch	2.37
Hall, Munson & Perry Branch.	7.22
Prison Branch Furst Stone Quarry Branch	.45
Teal Lake Branch	.40 1.47
Lake Angeline Branch	.62
Baron Branch	.39
Martel Furnace Branch	.95
Mackinaw Mill Branch	.70
Lake St. Marquette Branch	1.28
Polygonal Branch	.45
Ragle Mill Y's Branch	.62
Winthrop Branch Dexter Branch	1.95 2.60
Boston Branch	2.06
Champion Branch	.98
Neff's Kitchi Branch	1.87
Trout Creek Branch	.91
McRae's Ewen Branch	.81
Clark, Farnum & Co's Branch	. 79
Grand Rapids Mine Branch	1.72
L'Anse M'dse Pier Branch Baraga Mill Branch	. <b>81</b> . <b>46</b>
Jamieson's Branch	2.98
Lucy Mine Branch	.31
Total	54.27
Miles.	Miles
Total length of branches owned by company  Total length of branches owned by company in Michigan 54.27	54.27
Total length of road belonging to this company	571.71
Aggregate length in Michigan of sidings, spure and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company, computed as single	109.02
track	574.20
Gauge of track, 4 feet 8½ inches.	

#### Proprietary or leased roads operated by this company.

Name, description and length of each:	Total miles.	In Michigan.
Trackage rights:  Dead River R. R. Superior Terminal R'y Northwestern Coal R'y Chic., St. Paul, Minn. & Om. B'y. Lake Superior Terminal & Transfer R'y. Northern Pacific R. R. Duluth Union Depot Co.	6.87 .38 1.64 .72	6.87
Total.	16.62	9.85
Total miles operated by company	588.88	475.08
Number of bridges and trestles in Michigan.	Number.	Aggregate length, feet.
Wooden Iron Wooden trestles	0	539.5
Total	239	42,898.5

<sup>\*</sup> The 30 wooden spans are parts of certain trestles.

Draw bridges in Michigan.

How many on your line?

Where located, when built and length of draw span: On Bay Mills branch, February, 1891; 32 feet.

Character of structure: Jack-knife draw.

Material of which constructed: Wood and iron.

Height above water, and depth of water under bridge: 2 feet 4 inches in clear; depth 12½ feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Straight.

Do you require all trains to come to full stop before crossing a draw, and how are they signaled? Yes; signaled by "stop" boards, 400 feet each way from draw.

# Crossings.—Railroad and highway.

Minneapol	is. St. Par	ıl & Sault	at grade in this State, and at what locality? Ste. Marie R'y at Trout Lake	1
				ī
Chicago &	Northwes	tern R'v a	t Palmer Branch.	2
	44		South Jackson Mine	1
66		44	Negaunee Station	ī
66	44	44	West Negaunee, main line	î
44	46	44	Barnum Mine.	i
44	44	44	St. Lawrence Mine	i
44	**	44	Lake Angeline Mine.	- 1
**	**	44	Winthrop Branch	- 5
44	**	44	Boston Branch.	ះ
••	44	44	Doston Drauen	•
	44	•	Republic Mine	•
	44		Michigamme, main line	Ť
			Michigamme, Mill tracks	z
~	. ".	**	Lake Superior, Section 7 Mine	1
Chicago, Mi	lwaukee d	St. Paul	R'y at Champion	ļ
**	**	**	" Republic Mine	1
"	**	**	" Republic	1
44	**	44	" Sidnaw	1
Nester Logs	ring Road	at Sidnaw	7	1
				_

What railroads cross your road either over or under your grade in this State, and where?  Over:	
Chicago & Northwestern R'y one mile east of Champion.  Iron Range & Huron Bay R. R. one mile west of Champion.  Lake Superior & Ishpeming R. R. at Bagdad Junction  Morgan	. 1
Iron Range & Huron Bay R. R. one mile west of Champion	. 1
Lake Superior & Ishpeming B. R. at Bagdad Junction	. 1
" " Queen Mine	1 1 1 1
Morgan Mine Blue Mine Blue Mine	. 1
" " Jackson Mine	ī
Under:  Munising B. R. at Munising Junction	1 2
At what crossings are interlocking and derailing switches in operation? Chicago & Northwestern R'y at Republic	
Chicago, Milwaukee & St. Paul R'y at Republic.	1
Manistique R'y at Seney.  Chicago & Northwestern R'y at Michigamme.  Chicago, Milwaukee & St. Paul R'y at Sidnaw.	1
Chicago & Northwestern R'y at Michigamme	. 1
Chicago, Milwaukee & St. Paul My at Sidnaw	. 1
What pattern or patterns have you adopted?". At Republic and Michigamme Union Switch & Signal Co. At Seney Gravitt Interlocking Switch Co. At Sidnaw Saxby & Farmer.	
•	184
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen	18
Number of crossings at which there are electric or automatic signals	8
Union Switch & Signal Co.	
Number of crossings of highways over or under railroad: over, 2; under 9,	11 2
Have safety guards been erected at overhead obstructions? Yes.	_
Are your frogs and guard rails blocked as required by act 174, session laws of 1883. Yes.	
How are they treated? Filled in with wooden blocks.	
Filled in with wooden blocks.	•
Number of stations on whole line	52
Number of stations on whole line	52 43
Same in Michigan	52 43
Employés.  Number of persons regularly employed on all roads operated by company, including	52 43
Employés.  Number of persons regularly employed on all roads operated by company, including officials	1,572
Employés.  Number of persons regularly employed on all roads operated by company, including	1,572 1,445
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan	1,445
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:	Number.
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.	1,445 Number. 22
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:	1,445 Number. 22 82 41
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan ==  Classify your employés as per following list:  Baggagemen ==  Brakemen ==  Conductors ==  Engineers ==	Number. 22 82 41 62
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen.  Brakemen Conductors Engineers. Firemen	1,445 Number. 22 82 41 62 63
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers	1,445 Number. 22 82 41 62 68 504
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Engineers Firemen Laborers Shopmen Yardmen	1,445 Number. 22 82 41 62 68 504 179 51
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers	1,445 Number. 22 82 41 62 68 504 179
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Engineers Firemen Laborers Shopmen Yardmen	1,445 Number. 22 82 41 62 68 504 179 51
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.  Brakemen  Conductors  Engineers.  Friremen  Laborers.  Shopmen  Yardmen  Others.	1,445 Number. 22 82 41 62 68 504 179 51
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Yardmen Others  REPAIRS AND RENEWALS.  Fencing in Michigan.	1,445 Number. 22 82 41 62 68 504 179 51
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.  Brakemen  Conductors  Engineers.  Friremen  Laborers.  Shopmen  Yardmen  Others.	1,445 Number. 22 82 41 62 63 64 179 51 568
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.  Brakemen Conductors Engineers. Firemen Laborers. Shopmen Yardmen Others  EEPAIRS AND EENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan	1,445 Number. 22 82 41 62 63 504 179 51 568
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen. Brakemen Conductors. Engineers Firemen Laborers. Shopmen Yardmen Others.  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan counties in which needed:	1,445 Number. 22 82 41 62 63 504 179 51 568
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.  Brakemen Conductors Engineers. Firemen Laborers. Shopmen Yardmen Others  EEPAIRS AND EENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan	1,445 Number. 22 82 41 62 63 63 504 179 51 568  443.74  , and the 22.24 92.05
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen Conductors Engineers. Firemen Laborers. Shopmen Yardmen Others.  REPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan ounties in which needed: Mackinac. Chippewa. Chippewa. Luce	1,445 Number. 22 82 41 62 63 504 179 51 568 443.74 , and the 22.24 92.05
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.  Brakemen Conductors Engineers. Firemen Laborers. Shopmen Yardmen Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan counties in which needed:  Mackinac Chippewa. Luce Schoolcraft	1,445 Number. 22 82 41 62 63 63 504 179 51 568  443.74  , and the 22.24 92.05 45.94 86.13
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemea Laborers Shopmen Yardmen Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan counties in which needed:  Mackinso. Chippewa Luce Schoolcraft Alger	1,445 Number. 22 82 41 62 63 504 179 51 568 443.74 , and the 22.24 92.05 46.94 36.13 51.12
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen Conductors. Engineers Firemen Laborers. Shopmen Yardmen Others.  EEPAIRS AND BENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan counties in which needed:  Mackinso.  Chippewa Luce Schoolcraft Alger.  Marquette Baraga	1,445 Number. 22 82 41 62 63 504 179 51 568  443.74  , and the 22.24 92.94 36.13 51.12 92.94 57.16
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen Conductors Engineers. Firemen Laborers. Bhopmen Yardmen. Others.  ERPAIRS AND BENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan oounties in which needed: Mackinac. Chippewa. Luce. Schoolcraft. Alger Marquette Baraga Houghton	1,445 Number. 22 82 41 62 63 504 179 51 568 443.74  443.74  22.24 92.05 46.94 86.13 51.12 92.94 57.16
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan  Classify your employés as per following list:  Baggagemen.  Brakemen Conductors Engineers. Firemen Laborers. Shopmen Yardmen Others  EEPAIRS AND RENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan counties in which needed:  Mackinac Chippewa. Luce Schoolcraft Alger. Marquette Baraga Houghton Ontonagon	1,445 Number. 22 82 41 62 63 63 504 179 568  443.74  , and the 22.05 46.94 36.13 51.12 92.94 57.16 15.58 81.18
Employés.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen. Brakemen Conductors Engineers. Firemen Laborers. Bhopmen Yardmen. Others.  ERPAIRS AND BENEWALS.  Fencing in Michigan.  How many miles of fencing have you  Give the number of miles required to complete fence both sides of your track in Michigan oounties in which needed: Mackinac. Chippewa. Luce. Schoolcraft. Alger Marquette Baraga Houghton	1,445 Number. 22 82 41 62 63 504 179 51 568 443.74  443.74  22.24 92.05 46.94 86.13 51.12 92.94 57.16

Road bed and track.			
Number of track sections in Michigan.  Average lengths of sections, miles.		5.16	.90
Average number of men in each section gang			180,208
Number of new ties put in track in Michigan  Average number of new ties per mile of road			153,820 315
Bridges and culverts.			
Amount of trestle work replaced with earth during the year (linear feet)			8,58614
			Number.
Timber culverts replaced during the year			6 1
With timber,—number			5
ROLLING STOCK.			
ROLLING STOOK.			Present esti-
No Long of Language and many than 90 tons maintain and maintain of tonday		ber. 1 85	s469,100 00
Number of locomotives of more than 30 tons weight, exclusive of tender Number of locomotives of 20 to 30 tons weight, exclusive of tender	·	~~§	23,500 00
Total			\$492,600 00
Number of passenger cars-12-wheel, including official cars		1	\$7,000 00
Number of passenger cars—8-wheel, including official cars  Number of express and baggage cars		36 12	141,000 00 24,000 00
Number of box freight cars	1	,143	457,200 00
Number of platform cars Number of ore cars	1	580 ,323	174,000 00 502,500 00
Number of conductors' way cars		30	15,000 00
Other cars	···	20	42,600 00
Total	8	,145	\$1,858,900 00
Number of locomotives equipped with power brakes			71
Number of passenger train cars equipped with power brakes			49 629
•			
What patterns of power brakes have you in use, and number of locomotive 25 locomotives, Westinghouse. 28 locomotives, Westinghouse and American Steam Brake Co. 18 locomotives, American Steam Brake Co.	es and cars	with	each?
49 passenger cars. Westinghouse. 629 freight cars, Westinghouse.			
Are your freight cars being equipped with automatic couplers as required of 1885, as amended by act No. 88, session laws of 1887? Yes.	by act No.	147, 1	ession laws
What pattern or patterns have you adopted for use? Trojan (M. C. B.)			

How are your passenger cars heated?

Mason & Baker heaters.

# MILEAGE, TRAFFIC, ETC.

# Train mileage.

	Entire lines. I	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year	670,550	585,510
Miles run by mixed trains during the year	761,444 64,245	654,888 64,245
Total mileage of trains earning revenue	1,496,239	1,304,593

# Passenger traffic.—Entire lines.

	Number.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	47,178 821,278	<b>2</b> 1100.	134.00
Total number of passengers carried, earning revenue	368,451		
Number of passengers carried one mile  Average distance carried  Average amount received from each passenger  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers		46.775	\$1 28.048 02.488 02.889 02.737
Passenger traffic.—In State of Mick	tigan.		
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	45,540 303,087		
Total number of passengers carried, earning revenue	348,627		
Number of passengers carried one mile		43.744	\$1 22.832 02.529 02.962 02.808
Freight traffic.—Entire lines.			
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 505,675 1,832,722	Miles.	Rate.
Total tons of freight carried earning revenue	2,338,397		
Total mileage of through freight		6,314,805 5,453,347 1,768,152	
Average ton haul for through freight  Average ton haul for local freight.		150.916 19.344	
Average ton haul for all freight.		47.797	
Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average ton receipts per mile, for local freight.  Average receipts ton per mile for all freight.			\$0 55.822 00.762 02.040 01.168
Freight traffic.—In State of Michi	gan.	•	
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	485,448 1,787,047		
Total tons of freight carried, earning revenue	2,272,490		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile	6 3 9	4,276,708 2,914,024 7,190,782	
Average ton haul for through freight		132.408 18.417 42.768	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile for local freight.  Average receipts ton per mile, for all freight.	<u>-</u>		\$0 52.872 00.765 02.121 01.224

# FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

# Company's material excluded.

	Freight	Freight re-		
Commodity.	originating on this road. Whole tons.	connecting roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	8,120	29,675	82,795	1.40
Flour Other mill products	31,158 3,577	18,566 6,200	49,724 9,777	2.13 .42
Other min products	2,292	21,170	28,462	1.0
HayFruit and vegetables	474	10,009	10,483	1.4
Products of animals:				_
Live stock	558	1,804	2,857	1 .10
Dressed meats.	85	10,189	10,274	.4
Other packing house products  Poultry, game and fish	21	48		
Poultry, game and fish	535	105 1,936	640 1.936	0. 0.
Wool Hides and leather	58	1,930	1,930	
Products of mines:				
Anthracite coal Bituminous coal	7,558	123	7,676	.8
Bituminous coal	60,252	46	60,298	2.5
Coke		206	206	0
OresStone, sand, and other like articles	1,846,855 4,579	680	1,846,855 5,259	57.5 .2
Products of forest:				
Lumber		19,808	164,722	7.0
Loga	857,958	1,951	359,904	15.3
Manufactures: Petroleum and other oils	1.131	3,756	4.887	.2
Snear	30		1,520	1 .6
Sugar Iron, pig and bloom	10,570	1.845	11,915	.5
Iron and steel rails Other castings and machinery Bar and sheet metal	1.856	4.037	5,893	.2
Other castings and machinery	8,305	7,207	10,512	.4
Bar and sheet metal	164	6,919	7,083	.8
		3,582	4,674	
Agricultural implements	.	243	i 243	.0
Wagons, carriages, tools, etc.	418	546	959	.9
Wines, liquors and beers Household goods and furniture	875 566		3,852 1,019	1.0
	1		1	]
Merchandise	22,050	45,935	67,985	2.9
Miscellaneous: Other commodities not mentioned above	84,095	47,714	131,809	5.0
Total tonnage	2,089,626	248,771	2,838,397	100.0

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

# Company's material excluded.

		Freight originating on this road outside	Total freig	ht tonnage.
Commodity.	Freight originating on this road. Whole tons.	of Michigan, and all freight received from connecting roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture: Grain Flour Other mill products Hay Fruit and vegetables.	101	31,613 48,960 9,319 20,858 10,010	31,729 49,061 9,350 22,332 10,413	1.40 2.16 .41 .98
Products of animals: Live stock Dressed meats Other packing house products Poultry, game and fish Wool Hides and leather	85 21 535	1,887 10,189 48 103 1,882	2,286 10,274 69 640 1,882	.10 .45 .08 .08
Products of mines: Anthracite coal	l	134 60 206	7,585 60,298 206 1,346,355 5,133	.33 2.65 .01 59.25
Products of forest: Lumber	118,749 883,505	25,331 1,951	144,080 385,456	6.84 14.76
Manufactures: Petrolsum and other oils Sugar. Iron, pig and bloom Iron and steel rails Other castings and machinery. Bar and sheet metal. Cement, brick and lime. Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture. Merchandise. Miscellaneous:	29 10,570 1,856 3,093 164 701 413 875 417 19,786	8,779 1,491	4,800 1,520 11,915 5,876 10,097 6,726 4,817 243 959 3,830 969	.21 .07 .52 .26 .44 .30 .19 .01 .04 .17
Other commodities not mentioned above	71,205	47,220	118,425	5.21
Total tonnage	1,984,021	288,469	2,272,490	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies? Western Express Company does a general business. We receive variable amounts per month based upon the earnings of the Western Express Co. We take their freight at our depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?
234.00 miles of line and 448.04 miles of wire belongs to D., S. S. & A. R'y Co.
294.70 miles of line and 843.80 miles of wire belongs to Western Union Telegraph Co.

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Name of company.	General office.	Amount paid.
Wagner Palace Car Co	New York, N. Y.	\$9,125 18

#### Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Merchants' Despatch Transportation Co. Blue Line Canada Southern Line Bun Oil Line Armse Palace Horse and Stock Car Co. Union Tank Line	New York, N. Y. Rochester, N. Y. Rochester, N. Y. Toledo, Ohio. Chicago, Ill. New York, N. Y.	\$149 78 282 11 36 22 10 64 12 01 87 34
National Despatch Line Red Line Transit Co. Chicago Befrigerator Car Co. American Tank Line Armour Car Lines	St. Albans, Vt. Buffalo, N. Y. Chicago, Ill. Cleveland, O. Chicago, Ill.	8 02 20 90 5 41 10 81 362 06
Morris & Co. Refrigerator Line Street's Stable Car Line Union Refrigerator Transportation Co. Canadian Pacific Despatch Cudahy Refrigerator Line	Chicago, Ill. Chicago, Ill. St. Louis, Mo. Boston, Mass. South Omaha, Neb.	182 02 1 08 177 69 1,471 28 18
Swift Refrigerator Line Hammond Refrigerator Line American Refrigerator Transit Co. Empire Line. Paragon Refining Co.	Chicago, Ill. Hammend, Ind. St. Louis, Mo. Philadelphia, Pa. Toledo, Ohio.	435 87 541 69 11 68 8 81 21 38
Armour Packing Co. International Fruit Dealers' Despatch. St. Louis Refrigerator Car Line. Cudaby Milwaukee Refrigerator Line. Dold Packing Co.	Kansas City, Mo. Chicago, Ill. St. Louis, Mo. Milwankee, Wis. Kansas City, Mo.	109 27 7 35 6 86 84 1 23
Provision Dealers' Despatch California Fruit Transportation Co Craig Oil Line Burton Stock Car Co Commerce Dispatch	Toledo, Ohio Boston, Mass.	6 60 4 82 9 81 15 78 48
Keystone Palace Horse Car Co Anglo American Refrigerator Co	Chicago, Ill. Chicago, Ill. Lafayette, Ind. 'leveland, O. Chicago, Ill.	1 97 18 28 1 41 63 82 11 84
White Line	Buffalo, N. Y Philadelphia, Pa Chicago, Ili Minneapolie, Minn Lima, Ohio	2 19 72 92 8 30 1 88
Globa Tank Line New York Despatch Refrigerator Line Penn Refining Co. St. Paul Refrigerator Line. Rock Falls M'ig Co.	Marietta, Ohio	40 1 78 40 20 43 61
Bay Terminal Co. Southern Freight Line American Cereal Co. Erie Despatch Cottolene Refrigerator Line	Toledo, Ohio Atlanta, da. Chicago, Ill. Cleveland, Ohio. Chicago, Ill.	24 42 16 2 00 1 08 77
	•	

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

February 19, Frank Smith, coal heaver, Marquette. Piece of coal weighing 700 or 800 pounds fell on him; accidental.

February 19, Forry Donahue, brakeman, Chassell. Rear end collision; lack of caution. April 11, Geo. Adams, trespasser, Driggs. Trespasser; lack of caution.

May 1, A. Caron, laborer, Danaher. Jerked off of car under train; lack of caution. June 10, Ed. Downey, brakeman, Negaunee. Jerked off of car under train; accidental. July 28, A. Daglio, trespasser, Negaunee. Trespasser; lack of caution. Aug. 23, John Norbom, trespasser, Marquette. Trespasser; lack of caution. Aug. 31, Andrew Brandt, laborer, Trout Creek. Gravel plow tipped off car and fell on his head; accidental.

January 10, P. Lafraniere, car repairer, St. Ignace. Fell through coal hatch on transfer boat while inspecting cars; carelessness.

January 24, B. Messier, switchman, Marquette. Knocked off side of car by a pile of lumber; lack of caution.

January 22, John Osborn, transfer man, Houghton. Grindstone fell on his leg; accidental.

January 18, C. McLean, brakeman, Beaufort Junction. Jumped from top of train to avoid further injury in collision; accidental.

February 18, E. Haake, trespasser, Matchwood. Trespasser; fell off train; lack of caution.

February 9, Thoe. Carney, brakeman, Provost. Coupling; lack of caution.

February 18, O. Azotts, switchman, Marquette. Fell from train; accidental.

February 18, H. Fee, conductor. Chassell. Esar end collision; lack of caution.

March 13, J. McLean, carpenter, St. Ignace. Cut his foot with an ads; accidental.

March 13, J. McLean, carpenter, St. Ignace. Cut his foot with an ads; accidental.

March 13, J. McLean, brakeman, Nestoria. Coupling; lack of caution.

March 3, John Barnaby, brakeman, L'Anse. Coupling; lack of caution.

March 3, John Barnaby, brakeman, Nestoria. Coupling; lack of caution.

May 12, Geo Mailhot, section foreman, St Ignace. Rail fell on his hand; accidental.

May 14, W. M. Johnson, trespasser, Newberry. Trespasser; caught foot between draw heads; lack of caution.

May 26, Martin Kork, laborer, Marquette; Fell from car into dook pocket; accidental.

March 30, P. Lavelle, brakeman, Thomaston. Coupling lack of caution.

June 17, M. Schultz, laborer, Marquette. Struck on arm with ore dock soout crank; accidental.

June 18, M. Flannery, switchman, Negaunee. Coupling; lack of caution.

July 23, L. Jones, laborer, Sault Ste. Marie. Trying to get on moving push car, his foot slipped and car passed over his leg; accidental.

August 23, D. McAuliff, trespasser, Negaunee. Trying to jump on moving train and fell under train; accidental.

August 21, E. Laframer, conductor, Kenton. Truck fell on his foot; accidental.

December 23, A. Tousignaut, brakeman, Trout Cr

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.	_		Injured.	
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Em ployés.	Others.
Collisions		1			3 7	
Falling from trains		4	2 1		10	
Total		5	3		23	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	8 26 18 16 2 6
------------------------------------------	-------------------------------

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Conductors	2	9 2	11
Laborers	2	5	7
Ÿardmen. Not classified above	1	ă.	5
Total	5	28	28

STATE OF MICHIGAN, Ss.
COUNTY OF MARQUETTE, Ss.

A. E. Delf, Auditor, of the Duluth, South Shore and Atlantic Railway Company, being duly sworn deposes and says that he have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF E. R.]

Subscribed and swora to before me this 1st day of April, A. D. 1897.

A. E. DELF, Auditor.

CHARLES A. PAYNE.

#### ANNUAL REPORT

OF THE

# FLINT & PERE MARQUETTE RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed April 28, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, W. W. CRAPO, New Bedford, Mass. Secretary and Treasurer, H. C. POTTER, JR., Saginaw, E. S., Mich. Auditor, C. S. McMILLAN, Saginaw, E. S., Mich. General Manager, S. T. CRAPO, Saginaw, E. S. Mich. General Superintendent, W. F. POTTER, Saginaw, E. S., Mich. Traffic Manager, A. PATRIARCHE, Saginaw, E. S., Mich. Chief Engineer, W. B. SEARS, Saginaw, E. S., Mich. Superintendent of Telegraph, A. H. FOLLETT, Saginaw, E. S., Mich. Cashier, T. E. BORDEN, Saginaw, E. S., Mich. Attorneys, HANCHETT & HANCHETT, Saginaw, E. S., Mich.

#### DIRECTORS.

WILLIAM W. CRAPO, New Bedford, Mass. LOUM SNOW, New Bedford, Mass. GEORGE COPPELL, New York City. THOMAS F. RYAN, New York City. J. LEWIS STACKPOLE, Boston, Mass. R. B. Dodson, New York City. LEWIS PIERCE, Portland, Maine. HENRY B. STONE, Chicago, Ill. H. C. POTTER, Saginaw, E. S., Mich. H. C. POTTER, JR., Saginaw, E. S., Mich. W. H. Tousey (deceased), Bay City, Mich. Terms expire third Wednesday in May.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 31, 1880. Number of stockholders at date of last election: 1,586. Number of stockholders in Michigan at same date: 14. Amount of full paid stock held in Michigan at same date: \$58,200.00. Date of annual meeting of stockholders: Third Wednesday in May. Fiscal year of company ends December 31st. General offices of the company are located at Saginaw, E. S., Mich.

	GENER	AL E	XHIBIT.	Dakis	Credit.
Total earnings from operation Total expenses, including taxes				Debit.	
Net income					±529,600 01
Interest on funded debt					<b>4</b> -
Steamer earnings				\$613,323 3	127,378 18 1,186 46
Balance applicable to dividends.					. \$44,839 30
Balance for the year					_ \$44,839 30
Balance (profit and loss) last year					153,815 91
Balance forward to next year					\$198,155 21
			PITAL STOCK.	·····	.\$10,000,000 00
Number of shares issued			96,402		_
Amount paid in on common		 		\$3,298,200 0	0
Amount of shares not issued, number	{ Prefer Comm	rred	2,018}	359,800 0	<u> </u>
Total amount as per books of the	company.				. 10,000,000 00
Per mile of road owned by company, 7	38.93 miles				. 13,533 08
ANA	LYSIS O	F DE	BT ACCOUNTS.		
	FUN	DED 1	DEBT.		
Class, character and date of issue		te of	When due.	Where payable.	Amount outstanding.
Holly, Wayne & Monroe F. & P. M. 6's F. & P. M. 5's P. H. & N. W. Div. 5's Equipment 5's		8% 8% 5% 5%	Jan. 1, 1901 Oct. 1, 1920 May 1, 1939 April 1, 1939 \$40,000 annual'y	New York City New York City New York City New York City Boston.	\$1,000,000 00 3,999,000 00 2,100,000 00 3,250,000 00 40,000 00
Total funded debt					\$10,389,000 00
	UNFUNDE	D DEI	зт.		
For what incurred.	Is the sa	me to	be funded or how	v liquidated?	Amount.
For miscellaneous					\$1,589,482 48
Total funded debt			ATION.	. 1	\$10,389,000 00
Total debt liabilities					
Amount of debt liabilities per mile of Total amount of stock and debt Stock and debt per mile of road, 738.86	road, 738.9	3 mil	98	•	16,210 57 21,978,482 48

# GENERAL BALANCE SHEET.-DR.

GENERAL BRURNOR SEEL.—Dr.		
Construction account	} ,	91 ANK 794 NK
Construction account Equipment account	5 '	921,400,704 00
Other investments:	#9## 99A 9A	
Car ferry. Pere Marquette	286,178 72	
Bay City Belt Line R. R. stock and advances	114,840 28	
Cher investments: F. & P. M. steamers, 4. Car ferry, Pere Marquette Bay City Belt Line R. R. stock and advances Fort Street Union Depot Stock Elevators	\$386,320 29 286,178 72 114,840 28 250,000 00 8,604 17	
Micker Micker	0,0011	1,020,943 46
Cash items:		_,,,,
Cash	\$94,707 83 10,000 00	
Bills receivable  Due from agents	111,161 85	
- w		215,868 68
Other assets:	974 974 99	
Materials and supplies	\$14,014 88 454 981 79	
F. & P. M. stock upsold (preferred)	158,000 00	
Materials and supplies. Debit balances from companies and individuals F. & P. M. stock unsold (preferred) F. & P. M. common stock unsold	\$74,674 88 454,381 72 158,000 00 201,800 00	
	<del></del>	888,856 60
Total		28,531,452 79
GENERAL BALANCE SHEET.—Cr.		
Capital stock	••••••	.\$10,000,00 00
Unfunded debt:		10,389,000 00
Interest unpaid, not due	\$118,443 30	
Interest unpaid, not due Notes payable Vouchers and accounts.	\$118,443 30 824,964 78 842,591 39	
Vouchers and accounts	842,591 39	
Other liabilities:	4K 109 K9	
Monroe & Toledo R. R. hills navable	128,362 76	
Pere Marquette Trans. Co. bills payable	86,500 00	
State tax payable July, 1897 Monroe & Toledo R. B. bills payable Pere Marquette Trans. Co. bills payable Property renewals	45,103 52 128,362 76 86,500 00 43,516 78	
Profit and loss or income accounts		1,589,482 48
Total		28,581,452 79
COST OF ROAD AND EQUIPMENT.  Total cost for construction of road and branches built by com		
Total cost for construction of road and branches built by com		521,405,784 03
Total cost for construction of road and branches built by com		521,405,784 03 28,978 82 21,405,784 05
•		521,405,784 03 28,978 82 21,405,784 05
Total cost for construction of road and branches built by com  Total expended for construction and equipment  Average cost per mile of road (not including sidings), 783.93 miles  Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE		821,405,784 03 28,978 82 21,405,784 05
Total cost for construction of road and branches built by come Total expended for construction and equipment	YEAR.	
Total cost for construction of road and branches built by come Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Roadway and structures.	YEAR.	\$19,240 <b>94</b>
Total cost for construction of road and branches built by come Total expended for construction and equipment	YEAR.	\$19,240 <b>94</b>
Total cost for construction of road and branches built by come Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 783.93 miles.  Proportion of cost for Michigan.  CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Roadway and structures.	YEAR.	\$19,240 <b>94</b>
Total cost for construction of road and branches built by come Total expended for construction and equipment	YEAR.	\$19,240 94 7,648 14 \$26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Boadway and structures. Land.	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles Proportion of cost for Michigan CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Roadway and structures Land Total charges to property account as above	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles Proportion of cost for Michigan CHARGES AND CREDITS TO PROPERTY DURING THE MAIN LINE.  Roadway and structures Land Total charges to property account as above	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Boadway and structures. Land.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAR	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles. Proportion of cost for Michigan  CHARGES AND CREDITS TO PROPERTY DURING THE  MAIN LINE.  Boadway and structures. Land.  Total charges to property account as above. Net addition to property account.  ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAR	YEAR.  YEAR.  \$541,517 06 51,732 01	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	YEAR.	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	YEAR.  \$541,517 06 51,732 01  \$593,269 07	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	YEAR.  \$541,517 06 51,732 01  \$593,269 07	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come total expended for construction and equipment Average cost per mile of road (not including sidings), 783.93 miles	YEAR.  YEAR.  \$541,517 06 51,732 01	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	\$541,517 06 51,752 01 \$593,269 07 51,639 82 66,926 15 18,138 43	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	\$541,517 06 51,752 01 \$593,269 07 51,639 82 66,926 15 18,138 43	\$19,240 94 7,648 14 \$26,889 08 26,889 08
Total cost for construction of road and branches built by come Total expended for construction and equipment. Average cost per mile of road (not including sidings), 783.93 miles	\$541,517 06 51,752 01 \$593,269 07 51,639 82 66,926 15 18,138 43	\$19,240 94 7,648 14 \$26,889 08 26,889 08

FREIGHT BARNINGS.		
Main line and branches: Local traffic Through traffic	\$968,400 43 418,452 50	
Total traffic		\$1,386,852 93
Total freight department earnings		\$1,386,852 93
Per train mile	\$1 18 1,819 42	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
PASSENGER EARNINGS.  Main line and branches:		
Local fares Through fares	\$542,036 88 51,803 67	
Total passenger fares		\$393,860 00
Express and baggage  Mails  Other sources	\$51,639 82 66,926 15 18,139 43	
Total passenger department earnings		\$780,564 40
Per train mile	\$0 <b>69</b> 958 85	•
FREIGHT EARNINGS.  Main live and branches:  Local traffic  Through traffic	\$989,364 60 418,869 12	
Total traffic.		1,388,283 72
Total freight department earnings		\$1,388,283 72
Per train mile Per mile of road	\$1 19 1,819 55	
Total transportation earnings, entire line Transportation earnings per mile of road, 762.96 miles Transportation earnings per train mile, 2,231.282 miles	2,777 07 <b>95</b>	\$2,118,798 12
Total earnings from operation of road		\$2,118,798 12
Total earnings per mile of road, 762.98 miles	\$2,777 07 95 2,116,826 40 2,777 08	102 020 10
Net steamer earnings Rents of tenements		127,878 18 1,186 46
Total income from all sources		\$2,247,357 71
Proportion of income for Michigan,	· · · · · · · · · · · · · · · · · · ·	2,245,385 99
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway.  Renewals of rails.  Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves.  Repairs and renewals of telegraph.  Stationery and printing.		\$196,843 17 600 00 71,234 29 12,292 12 14,138 22 29,507 76 985 52 2,093 59 202 76
Total		\$327,898 08

MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses Total	\$7,655 40 86,750 43 44,820 04 76,321 43 2,787 12 628 79 368 99 1,476 84 \$214,809 04
CONDUCTING TRANSPORTATION.	
Superintendence. Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service. Train service. Switchmen, flagmen and watchmen Telegraph expenses Station service Station supplies. Switching charges—balance Car mileage—balance—Cr. Loss and damage. Injuries to persons Clearing wrecks Advertising. Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing.	\$18,300 94 160,114 08 158,053 10 12,298 40 4,572 10 1,705 08 139,817 68 23,939 72 66,884 08 177,173 28 14,566 18 4,924 81 4,924 81 7,904 70 5,961 77 1,232 93 6,933 10 28,29 41 66,174 00 281 24 11,740 61
Other expenses	1,517 82 \$921,499 71
Salaries of general officers Salaries of cierks and attendants General office expenses and supplies Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes  Total	\$21,349 92 29,471 82 5,197 40 7,021 63 3,475 83 1,777 31 8,054 13 48,648 79 \$124,996 33
RECAPITULATION OF EXPENSES. Per cent o expenses.	
Maintenance of way and structures         20.63           Maintenance of equipment         13.52           Conducting transportation         57.98           General expenses, including taxes         7.87           Total operating expenses and taxes         100.00	\$827,898 08 214,809 04 921,499 71 124,996 33 \$1,589,198 11
Operating expenses and taxes per mile of road, 762.96 miles   \$2,082 93	1,587,719 23 694 14 24

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Monroe to Ludington, December 1, 1874.
From Manistee Junction to Manistee, June 2, 1882.
From City of Saginaw to City of Saginaw, Belt Line, June 16, 1889.
From Port Huron to Sand Beach, Sept. 13, 1880.
From Port Huron to Saginaw, February 22, 1882.
From Port Huron to Almont, Oct. 3, 1882.
From Palms Junction to Port Austin, December 11, 1882.
From Port Austin to Grindstone City, July 31, 1892.

MAIN LINE:	•	
	Miles.	Miles.
In Michigan, from Monroe or Raisin to Ludington	249.34	
Total length completed		249.84
Branches.		
Monroe branch	2.97	
Detroit Division	8.67 19.51	
Flint River Division Bay City Division and branches.	16.28	
Bay City Loop Line	8.02	
Crow Island Branch	1.57	
St. Clair Division	16.75	
Saginaw Belt Zilwaukee Branch	9.84 6.33	
West Shore Branch	3.89	
Coleman Branch	22.32 14.78	
Mt. Pleasant Division Hoyt North and South Branch.	14.78	
Hoyt North and South Branch	18.33 85.74	
Harrison Divi-ion	28.55	
Star Lake Branch Manistee Division and Branches	29.73	
Kastern Division	90.30	
Sand Beach Division, 3 ft. gauge	70.18	
Port Austin Division, 3 ft. gauge	39.98 33.91	
Almont Division Business Producing Spurs	18.44	
Duoinese I locating Spare		
Total length of branches owned by company		486.09
Total length of branches owned by company in Michigan	486.09	
Total length of road belonging to this company		735.48
Total length of road belonging to this company in Michigan.	735 . 43	400 04
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs, and other tracks not above en Aggregate length of tracks in Michigan belonging to this company, comput	ed as single	177.81
track		918.24
Gauge of track, 4 feet 81/4 inches, 756.20 miles.		
Gauge of track, 4 feet 8¼ inches, 756.20 miles. Gauge of track, 3 feet, 157.04 miles.		<del></del>
Gauge of track, 4 feet 8½ inches, 756.20 miles. Gauge of track, 3 feet, 157.04 miles.		
Gauge of track, 4 feet 8½ inches, 756.20 miles. Gauge of track, 3 feet, 157.04 miles.  Proprietary or leased roads operated by this company.		
Proprietary or leased roads operated by this company.	otal miles.	In Michigan.
Proprietary or leased roads operated by this company.  Name, description, and length of each:		_
Proprietary or leased roads operated by this company.  Name, description, and length of each:	3.24	3.24
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western Playmouth to Radford.	3.24 1.36	3.24 1.86 11.68
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. B. & Western Playmouth to Radford.	8.24 1.36 11.63 8.09	3.24 1.36 11.68 8.09
Name, description. and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City. D. & M. R'y	8.24 1.36 11.63 8.09 26	3.24 1.36 11.68 8.09 26
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit Gr. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis	8.24 1.36 11.63 8.09 26 18.72	3.24 1.36 11.68 8.09 26 18.00
Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y	8.24 1.36 11.63 8.09 26	3.24 1.36 11.68 8.09 26 18.00
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit Terminal, 18th Street to Fort Street Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis	8.24 1.36 11.63 8.09 26 18.72	3.24 1.36 11.68 8.09 26 18.00
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.	3.24 1.36 11.63 8.09 26 18.72 4.93	3.24 1.36 11.68 8.09 26 18.00
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23	3.24 1.36 11.63 8.09 26 18.00
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66	3 .24 1 .36 11 .63 8 .09 26 18 .00 
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66	3.24 1.36 11.63 8.09 25 18.00 42.58 778.01 Aggregate length feet.
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number.	3.24 1.36 11.63 8.09 25 18.00 42.58 778.01 Aggregate length feet.
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line. Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Lron	3.24 1.36 11.63 8.09 26 18.72 4.93 783.66 Number.	3.24 11.35 11.63 8.09 25 18.00 
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number.	8.24 1.35 11.68 18.09 26 18.00 42.58 778.01 ————————————————————————————————————
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line. Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Lron	3.24 1.36 11.63 8.09 26 18.72 4.93 783.66 Number.	3.24 11.35 11.63 8.09 25 18.00 
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination	3.24 1.36 11.63 8.09 26 18.72 4.93 783.66 Number.	8.24 1.35 11.68 18.09 26 18.00 42.58 778.01 ————————————————————————————————————
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden treetles.	3.24 1.36 11.63 8.09 26 18.72 4.93 783.66 Number.	3.24 1.36 11.63 8.09 25 18.00 42.58 778.01 ————————————————————————————————————
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden trestles.	3.24 1.36 11.63 8.09 26 18.72 4.93 783.66 Number.	3.24 1.36 11.63 8.09 25 18.00 42.58 778.01 ————————————————————————————————————
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden trestles.  Total  Draw bridges in Michigan.	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	3.24 1.36 11.63 8.09 25 18.00 42.58 778.01 ————————————————————————————————————
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden trestles.  Total  Draw bridges in Michigan.	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	3.24 11.85 11.63 8.09 26 18.00 42.58 778.01 Aggregate length feet. 8,72834 939 15,590%
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden trestles.  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span:	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	3.24 11.85 11.63 8.09 26 18.00 42.58 778.01 Aggregate length feet. 623½ 3,728¾ 939 15,590½ 20,881¾
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron  Combination  Wooden treetles  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span: One at Saginay built in 1893, iron	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	8.24 1.36 11.63 8.09 26 18.00 42.58 778.01 ————————————————————————————————————
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden trestles.  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span: One at Saginaw built in 1893 iron	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	3.24 11.35 11.63 8.09 25 18.00 42.58 778.01 Aggregate length feet. 623/4 8,7283/4 939 15,590/4 20,8813/4
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden trestles.  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span: One at Saginaw built in 1893 iron	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	8.24 1.36 11.68 11.68 8.09 28 18.00 42.58 778.01 Aggregate length feet. 628,4 8,728,4 939 15,590,4 20,881,4 Feet. 168 142 189
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron Combination Wooden trestles.  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span:	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	3.24 11.35 11.63 8.09 25 18.00 42.58 778.01 Aggregate length feet. 623/4 8,7283/4 939 15,590/4 20,8813/4
Proprietary or leased roads operated by this company.  Name, description, and length of each: Detroit Terminal, Delray to 18th Street. Detroit Terminal, 18th Street to Fort Street. Detroit G. R. & Western, Plymouth to Redford. Bay City Belt Line Bridge Junction to West Bay City, D. & M. R'y. Monroe & Toledo, Raisin to Alexis Ann Arbor R. R. Alexis to Toledo.  Total.  Total miles operated by the company  Number of bridges and trestles in Michigan.  Wooden bridges Iron  Combination  Wooden treetles  Total  Draw bridges in Michigan.  How many on your line  Where located, when built, and length of draw span: One at Saginay built in 1893, iron	3.24 1.36 11.63 8.09 26 18.72 4.93 48.23 783.66 Number. 10 29 9	8.24 1.36 11.68 11.68 8.09 28 18.00 42.58 778.01 Aggregate length feet. 628,4 8,728,4 939 15,590,4 20,881,4 Feet. 168 142 189

Material of which constructed: Iron and steel.

Height above water, and depth of water under bridge: 12 to 16 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Two straight, two curved.

Do you require all trains to come to full stop before crossing a draw, and how are they signaled? Yes, until signaled by hand.

Crossings.—Railroad and highway.

```
What railroads cross your road at grade in this State and at what locality?

Lake Shore & Michigan Southern R. B. at Carlton, Delray and Monroe.

Wabash R. R. at Romulus and Delray.

Michigan Central R. R. at Saginaw Junction, Vassar, Otter Lake, Saginaw, W. S., Mershon, Bay City 3 times, Delray twice.

Detroit, Grand Rapids & Western R. R. at Plymouth.

Chicago & Grand Trunk R. R. at Flint, G. T. Junction, Port Huron.

Detroit, Grand Haven & Milwaukee R. R. at Holly.

Cincinnati, Saginaw & Mackinac R. R. at Baginaw, Mershon.

Ann Arbor R. R. at Clare.

Grand Rapids & Indiana R. R. at Reed City.

Manistee & Luther R. R. at East Lake.

Chicago & West Michigan R. R. at Baldwin.

Manistee & North Eastern R. R. at Manistee.

Pontiac, Oxford & Northern R. R. at Clifford.

Midland & Northern R. R. at Midland

Grand Trunk R. R. at Wixon, G. T. Junction, Port Huron twice.

What railroads cross your road either over or under your grade in this State and where?
What railroads cross your road either over or under your grade in this State, and where?
   Over:
Manistee & Grand Rapids R. R. at Stronach.
   Under:
Michigan Central R. R. at Springwells and Detroit.
At what crossings are interlocking and derailing switches in operation?
Michigan Central—Mershon, Wayne, Delray, Saginaw 8 places, Bay City 3 places.
Cincinnati, Saginaw & Mackinaw—Saginaw 8 places, Mershon.
   Cincinnati, Saginaw & Mackinaw—Saginaw 5 piaces, Mershon.
Ann Arbor—Clare.
Chicago & West Michigan—Baldwin.
Chicago & Grand Trunk and Grand Trunk—Grand Trunk Junetion, Port Huron.
Wabash—Romulus.
Wabash—Romulus.
Widland & Northern Midland
  wabash—minuus.
Midland & Northern—Midland.
Manistee & Luther—East Lake.
Manistee & North Eastern—Manistee.
Lake Shore & Michigan Southern—Monroe.
What pattern or patterns in use?
O'Neil's electric.
Have safety guards been erected at overhead obstructions?
Yes.
Are your frogs and guard rails blocked as required by act 174, Session Laws of 18837
_Yes.
How are they treated?
Block, and the Hart guards.
                                                                 Stations.
Number of stations on whole lines.
Same in Michigan
                                                                Employés.
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan
                                                                                                                                        2,077
2,065
                                                                                                                                   Number.
Classify your employés as per following list:
  Baggagemen......Braksmen.
                                                                                                                                           22
121
65
92
97
836
211
  Conductors
   Ragineers _____
  Firemen....
    aborers_____
  Shopmen.
                                                                                                                                           78
555
    srdmen ______
```

#### BEPAIRS AND RENEWALS.

# Fencing in Michigan.

How many miles of fencing have you?			724%	
Give the number of miles required to counties in which needed:	ired to complete fence	both sides of y	our track in Michig	ran, and the
Midland Isabella Clare Gladwin Lake Mason Manistee Huron Sanilao				7% 5% 11 14 7 4 2%
Total miles required				561/4
	Road bed and	tanah		
Number of track sections in Mi Average lengths of sections, mi Average number of men in each Number of new ties put in who Number of new ties put in trac Average number of new ties per	chigan les n section gang le line during the year k in Michigan			397,567
Timber culverts replaced during With iron pipe				Number. 24 42
Location.	Kind.	Material.	Month built.	Feet
				in length.
Sand Creek Raisin River Raisin River French Creek Plum Creek La Plaisance Creek Woodchuck Creek Otter Creek Suiphur Creek Brook Creek	Pile trestle Steel 2 spans Pile trestle Deck girder Bents on concrete "" Deck girder Pile trestle	Wood Steel Wood Wood Steel Wood	June to Aug September September June to Aug  Yes to Aug September September	42 125 330 42 44 42 36 60 70 42.6
Kenney's Creek Bay Creek Indian Creek Indian Creek		Steel	11 11 11 11 41 11	56 41 58 80

#### ROLLING STOCK.

ROLLING STOCK.		
	Number.	Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	. 10	45,000 00
Total	. 10	\$624,500 00
Number of passenger cars—12-wheel, including official cars  Number of passenger cars—8-wheel, including official cars  Number of express and baggage cars  Number of box freight cars  Number of stock cars  Number of platform cars "flats"  Number of conductors way cars	. 86 24 1,72 . 4 . 1,15	157,250 00 18,950 00 18,950 00 845,800 00 7,920 00 172,950 00
Log	8 0 3 8	6 117,000 00
m-4-1		
Total.	· — -	
Number of locomotives equipped with power brakes		. 117
What patterns of power brakes have you in use, and number of locomotives and Westinghouse air brakes, 182. 40 engines equipped with steam driver and tender brake. 63 engines equipped with Westinghouse air brakes.	cars wit	h each?

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 83, session laws of 1887? Yes.

What pattern or patterns have you adopted for use? Gould.

How are your passenger cars heated? Baker & Smith hot water.

#### MILEAGE TRAFFIC, ETC.

Train mileage.  Miles run by passenger trains during the year			1,122,794
Passenger traffic.—Road all in State of	Michiga <b>n.</b>		
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	Number. 28,404 948,904	Miles.	Rate.
Total number of passengers carried, earning revenue	977,308		
Number of passengers carried one mile			\$0 60.7054 01.952 02.128
Average receipts per mue for focal passengers  Average receipts per passenger per mile for all passengers			02.128

# Freight traffic.—Road all in State of Michigan.

Number of tons of through freight carried, earning revenue	575,748 1,090,180		
Total tons of freight carried, earning revenue	1,605,878		
Total mileage of through freight.  Total mileage of local freight.		109,119,561 79,885,831	
Total freight mileage or tons carried one mile		188,005,392	
Average ton haul for through freight		187.7897 77.5492	
Average ton haul for all freight		117.0732	
Average amount received for each ton haul Average receipts ton per mile, for through freight. Average receipts ton per mile, for local freight. Average receipts ton per mile, for all freight.			\$0 86.854 00.386 01.210 00.787

# FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating	Freight received from connecting	Total freight tonnage.	
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	61,597	93,920	155,517	9.69
Flour Other mill products	11,886	157,100	168,486	10.50
Other mill products	6,325	45,338	51,663	3.22
Hay Fruit and vegetables	57,014 6,504	12,489 5,372	69,543 11,876	4.32 .74
Potatoes	36,589	1,899	38,488	2.40
Products of animals:	1			
Live stock	18,641	3,376	22,017	1.37
Dressed meats Poultry, game and fish	1,099	1,370	2,469	.16
Poultry, game and fish	1,087	574	1,641	.10
Wool	571 1,653	2,648	620 4,301	.04 .27
Products of mines:				
Anthracite coal				
Bituminous coal	5,683	53,047	58,780	3.66
Stone, sand and other like articles.	42,075	3,911	45,986	2.87
Salt	70,625	164	70,789	4.41
Products of forest:				
Lumber	241,486	22,057	263,523	16.41
Logs	134,830	3,990	184,830	8.40 1.26
Shingles	16,196	3,990	20,186	1.20
Manufactures: Petroleum and other oils	5,874	9,048	14,422	.90
Other castings and machinery	7,566	7,929	15,495	.97
Cement, brick and lime	12,376	5,995	18,371	1.15
Agricultural implements	617	1,638	2,270	.14
Wagons, carriages, tools, etc.	2,394	960	3,354	.21
Wines, liquors and beers.  Household goods and furniture	2,323	2,651	4,974	.31
Other manufactures	6,680 40,175	2,266 18,986	8,946 59,161	.56 3.69
		· ·	1	
Merchandise	89,922	77,519	162,441	10.13
Miscellaneous: Other commodities not mentioned above	164,608	81,211	195,819	12.13
Total tonnage	1,040,356	565,522	1,605,878	100 00

# ADDITIONAL QUESTIONS.

#### Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
Arms' Palace Horse Car Co. American Refrigerator Transit Co. Armour Refrigerator Line American Tank Line	Chicago, Ill. St. Louis, Mo. Chicago, Ill. Cleveland, Ohio. Chicago, Ill.	\$7 77 56 29 67 69 2 04 5 07
Burton Stock Car Co.  Barrett & Barrett Refrigerator Line.  Buckeye Transportation Co. Commerce Despatch Chicago Car & Coal Co.	Chicago, Ill. Chicago, Ill. Cincinnati, Ohio Indianapolia, Ind. Chicago, Ill.	125 04 5 60 3 29 17 42 18 04
Canada Cattle Car Co. Chicago Refrigerator Car Lines. Chicago & New York Refrigerator. Continental Fruit Express. California Fruit Express.	Chicago, III. Chicago, III. Chicago, III. Chicago, III. Chicago, III.	60 60 982 51 5 15 29 11 7 70
Undahy Milwaukee Befrigerator Line Cleveland Provision Company Cottolene Refrigerator Line California Fruit Transportation Co. Cold Blast Transportation Co.		86 1 47 2 91 21 59 73
Anglo-American Provision Co	Chicago, 111. Kansas City, Mo. Detroit, Mich. Chicago, Ili Chicago, Ili	1 55 1 <b>92</b> 1 <b>42</b> 2 12 14 <b>24</b>
Hammond Refrigerator Line Holmes & Adams Hodgeman, G. B. & Co. Heins, H. J. Heins Pickle Refrigerator Line	Hammond, Ind	65 41 1 74 6 87 3 38
International Fruit Dealers' Despatch J. E. B. Furniture Jackson, Sharp & Co. Kansas City Milling Co. Kingan Befrigerator Line	Chicago, Ill	1 55 11 21 8 88 39 4 05
Kansas City Dressed Beef Line Kansas City Refrigerator Car Co. Lipton Refrigerator Line Levy Packing Co. Live Poultry Transportation Co.	Kansas City, Mo. Kansas City, Mo. Chicago, Ill. Kansas City, Mo. Chicago, Ill.	4 87 70 35 3 06 3 99 3 82
Mather Stock Car Co.  Merchants' Despatch Transportation Co.  Morris Refrigerator Line.  Morris Coal & Transportation Co.  Manhattan Oil Co.	Chicago, Ill. New York City, N. Y. Chicago, Ill. Cleveland, Ohio. Lima, Ohio	87 29 2,926 31 11 66 7 44 5 22
New England Car Co	Boston, Mass. St. Albans, Vt. Chicago, Ill. Buffalo, N. Y. Cleveland, Ohio	71 28 492 61 15 82 4 61 18 90
Paragon Refining Co. Peerless Tank Line Producers' Oil Co. Provision Dealers' Despatch R. Foggan	Toledo, Ohio	112 35 84 26 8 48 2 24 3 45
Rock Falls Manufacturing Co	Chicago, Ill	76 1 75 24 20 47 71 8 60

# Fast freight lines.—Continued.

Name of Company.	General office.	Amount paid.
Sun Oil Line (Bay Terminal Railway) Swift Refrigerator Line St. Charles Car Co. Shippers' Refrigerator Line South Eastern Line	Chicago, Ill. Houston, Texas Chicago, Ill.	197 57 8 08 4 13
St. Louis Refrigerator Car Co. Southern Despatch Lumber Co. Union Refrigerator Transit Co. Union Tank Line. W. P. Rend & Co.	Louisville, Ky	8 47 85 65 785 01
Wells & Clear Western Rolling Stock & Equipment Co. White Star Transportation Co. Weaver-Getz Co.	Indianapolis, Ind	1 39
Total		\$6,687 5

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co., pays \$42,000 per annum; general express business; handles its own freight.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Western Union Telegraph Co., 587,36 miles.

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

January 15th, Wm. Tuck, farmer, Cottrell's Crossing, Vassar. Trespasser; company not responsible; his own carelessness.

February 4th, Alex. Fowles, switchman, Saginaw Yard. Coupling cars; purely accidental. March 23, Wm. Turner, Mayville. Trespasser; his own carelessness.

March 23, F. Madison, conductor, Flint. Coupling cars; purely accidental.

March 23, F. Madison, conductor, Flint. Coupling cars; purely accidental.

March 23, F. Madison, conductor, Flint. Coupling cars; purely accidental.

June 27, Chas. Leasher, Redford Junction. Trespasser; company not responsible; his own carelessness. July 17, Chas Wright, Bay City. Highway collision; lack of caution on his part; company not responsible.

July 17, Juno. D. Pew and wife, farmer, Novi. Highway collision; lack of caution; company not responsible.

July 20, Jacob Murch, Saginaw. Trespasser; his own carelessness; their own carelessness.

September 18, Thos. Brown, deaf mute, Mt. Pleasant. Trespasser; his own carelessness.

October 8, Jas. Welch, Mt. Morris. Trespasser; his own carelessness.

November 17, Deaf mute, name not learned, Dytroit. Trespasser; his own carelessness.

December 29, Unknown man, Manistee Junction. Trespasser; his own carelessness.

#### INJURED.

June 3, Geo. Hartman, sectionman, Juniata. Fell from car and both legs cut off; purely accidental. July 1, Herman Parish, Bay City. Highway collision; from lack of caution on his part.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.		Injured.			
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars Falling from trains Highway crossings Trespassers on tracks		2 1	8 10		i	i
Total		8	13		1	1

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	16
Number of persons injured during the year	2
Number of casualties purely accidental	4
Number resulting from lack of caution, carelessness, or misconduct	4
Persons killed or injured while intoxicated	1
Trespassers and tramps killed or injured	7
Suicides	2
	_

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen	1 1		1 1
Laborers	<u> </u>	1	1 
Total	8	1	4

STATE OF MICHIGAN, Ss.

COUNTY OF SAGINAW, Ss.

S. T. Crapo, General Manager, and C. S. McMillan, Auditor of the Flint & Pere Marquette Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

S. T. CRAPO, General Manager.

C. S. McMILLAN, Auditor.

Subscribed and sworn to before me this 26th day of April, A. D. 1897.

EDWIN F. SAUNDERS, Notary Public in and for Saginaw Co., Mich.

#### ANNUAL REPORT

OF THE

# GOGEBIC & MONTREAL RIVER RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 9, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, EDWIN H. ABBOT, Boston, Mass.

Vice President, FREDERICK ABBOT, Milwaukee, Wis.

Secretary, HOWARD MORRIS, Milwaukee, Wis.

Auditor, ROBERT TOOMBS, Milwaukee, Wis.

Treasurer, EDWIN H. ABBOT, Boston, Mass.

General Manager, H. F. WHITCOMB, Milwaukee, Wis.

General Superintendent, S. J. COLLINS, Milwaukee, Wis.

Division Superintendent, A. R. HORN, Stevens Point.

Chief Engineer, R. B. TWEEDY, Milwaukee, Wis.

Superintendent of Telegraph, P. W. DREW, Milwaukee, Wis.

Cashier, W. R. HANCOCK, Milwaukee, Wis.

General Passenger Agent, J. C. POND, Milwaukee, Wis.

General Freight Agent, J. C. McKINNON, Milwaukee, Wis.

Attorney, T. H. GILL, Milwaukee, Wis.

Receivers, H. F. WHITCOMB and HOWARD MORRIS, Milwaukee, Wis.

#### DIRECTORS.

EDWIN H. ABBOT, Cambridge, Mass, FREDBRICK ABBOT, Milwaukee, Wis. THOMAS H. GILL, Milwaukee, Wis. JOHN MARTIN, Milwaukee, Wis. HOWARD MORRIS, Milwaukee, Wis. Terms expire January 20, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 27, 1883.
Number of stockholders at date of last election: 6.
Date of annual meeting of stockholders: First Wednesday after third Tuesday in January.
Fiscal year of company ends June 30.
General offices of the company are located at Milwaukee, Wis.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$46,704 80
Net income.		\$4,087 01
Balance for the year Balance (profit and loss) last year	\$527 <b>8</b> 8	\$4,087 01
Balance forward to next year		\$3,559 68

### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Branches.	Extensions and new sidings.	New buildings.	New fences.	Total.
Tilden Mine Montreal Mine Palms Mine Standard Oil Co., Bessemer Gogebic Lumber Co., Ironwood	\$8,420 71 1,638 42 4,341 63 158 92 213 10	\$49 90	\$78 18	\$8,493 89 1,638 42 4,841 68 158 92 213 10 49 90
Total charges	\$14,772 78	\$49 90	\$73 18	\$14,895 86
Total charges to property account as above				\$14,895 96 14,895 96
Main line and branches: Local fares Through fares  Total passenger fares  Express and baggage Mails  Total passenger department earnings  Per train mile Per mile of road			\$2,770 60 1,470 00 \$4,240 60 597 71 316 29	\$5,154 60
Main line and branches: Local traffic			\$889 74	
Through traffic		-	40,520 21 \$41,359 95	•
Other sources, freight department			148 45	
Total freight department earnings		_		41,508 40
Per train mile Per mile of road	······		\$2 46 2,546 58	
Total transportation earnings, entire line  Transportation earnings per mile of road  Transportation earnings per train mile			\$2,862 76 1 30	\$46,663 00
Miscellaneous receipts from operating account, other tion, as follows:  From rents of tracks, yards and terminals.  From other sources			41 78	46 704 90
Total arnings from operation of road			\$46,704 80 2,865 32 1 30 46,704 80 2,865 32	46,704 80 \$46,704 80
Proportion of income for Michigan.	·			\$46,704

#### ANALYSIS OF EXPENSES.

#### MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway Renewals of rails. Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of telegraph. Other expenses	\$3,106 91 361 63 623 26 4,640 66 51 36 751 76 37 77
Other expenses	\$9,757 94
***************************************	
MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools	\$110 80 1,685 52 392 83 3,340 08 127 41 203 41
Total	\$5,860 05
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses. Station service. Station service. Station supplies Car mileage—balance Loss and damage. Injuries to persons. Clearing wrecks. Advertising. Outside agencies. Rents for tracks, yards and terminals. Rent of buildings and other property.	\$261 25 4,537 01 4,179 54 304 19 134 65 29 04 2,537 02 557 19 1,715 86 1,121 55 3,648 17 195 82 439 94 280 67 283 86 00 164 65 1,24 37 145 80 201 98
Total	\$22,018 58
GENERAL EXPENSES.	
Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses. Stationery and printing (general offices). Other expenses Taxes	\$1,239 59 1,216 22 321 70 156 97 164 58 553 60 170 23 1,158 35 \$4,981 22
RECAPITULATION OF EXPENSES.	
Per cent of expenses.	
Maintenance of way and structures         22.90           Maintenance of equipment         13.75           Conducting transportation         51.66           General expenses, including taxes         11.69           Total operating expenses and taxes         100.00	\$9,757 94 5,860 05 22,018 58 4,981 22 \$42,617 79
O-maki- a serior and description and making all mar 3	<b>60</b> 614 50
Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains earning revenue, 35,992 miles Total proportion of expenses for Michigan Percentage of expenses to earnings Net earnings per mile of road Net earnings per train mile	\$2,614 58 118 41 42,617 79 250 74 11

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Ironwood to Bessemer, June 6, 1887.

30

MAIN LINE.	
In Michigan, from Ironwood to Bessemer.	Miles. 6.86
BRANCHES.	
In Michigan, from Spurs to Mines.	9.44
Total length of road belonging to this company in Michigan	16.30 13.12
Aggregate length of tracks in Michigan belonging to this company, computed as single track.	29.42
Gauge of track, 4 feet 8% inches.	
Number of bridges and trestles in Michigan.	
Number, I	Aggregate ength, feet.
Wooden bridges	1,487.6
Iron bridges 2 Combination bridges 2	227.0 150.5
Total 9	1.865.1
10001	1,865.1
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? C. & N. W. R. R. at Bessemer. C. & N. W. R. N. at Palms Mine. Twin City Street R. R. at Ironwood.	
What railroads cross your road either over or under your grade in this State, and where? Under:	·
C. & N. W. R. R. at Ironwood. C. & N. W. R. R. at Siemens. C. & N. W. R. R. at Bessemer. D. S. S. & A. R. R. west of Bessemer.	
Number of crossings of highways at grade in this State.  Number of crossings of highways at grade in this State at which there are gates or flagmen.	5 1
Have safety guards been erected at overhead obstructions? Yes.	•
Stations.	
Number of stations on whole lines	2
$Employ\'es.$	
Number of persons regularly employed on all roads operated by company, including officials	28
Classify your employés as per following list:	Number.
Brakemen	2
Conductors	2
Engineers Firemen	2
Laborers. Shopmen	10
Yardmen	2 2 2 10 2 4 4
Others	
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you.	237

#### Road bed and track.

	koaa oea ana	track.		
Number of track sections in Mich Average lengths of sections, mile Average number of men in each sections. Number of new ties put in track Average number of new ties per re-	ection gang			3 5.26 4 2,630 161
New rails not in track	nue or rosa			236
New rails put in track				1.84
Total miles of track laid with ne	w rails			.67
	Dulden and an	Lucando		
	Bridges and cu			
Amount of trestle work replaced New bridges built during the year	_	year (Hidear 1961)		28.8
Location.	Kind.	Material.	Month built	feet in length.
Siemens	Riveted truss	SteelSteel	July	
	MILEAGE, TRAF	nge.		In Michigan.
Miles run by passenger trains during Miles run by freight trains during	ring the year			19,093 16,899
Total mileage of trains earning	ng revenue			35,992
. <b>P</b> e	ussenger traffic.—In Sta	te of Michigan.		
		Numb	ers. Miles	. Rate.
Number of through passengers of Number of local passengers carri	rried, earning revenue ed, earning revenue		523 017	
Total number of passengers c	arried earning revenue	33,	570	
Number of passengers carried on Average distance carried	e mile		144,139 4.29	)
Average amount received from es	ch passenger			. \$0 12.632
Average amount received from es Average receipts per mile for thr Average receipts per mile for loca Average receipts per passenger pe	ough passengers			02.976 02.924
Average receipts per passenger pe	or mile for all passenge	)rs		02.942
	Freight traffic.—In Sta	te of Michigan.		
		To		Rate.
Number of tons of through freight comber of tons of local freight c	arried, earning revenue	·1	176	
Total tons of freight carried,	_			
Total mileage of through freight Total mileage of local freight			4,159,292 7,050	3
Total freight mileage or tons	carried one mile		4,166,34	3
Average ton haul for through free Average ton haul for local freigh	ight t		5.58 6.00	

Average ton haul for all freight.....

Average amount received for each ton haul
Average receipts ton per mile, for through freight
Average receipts ton per mile, for local freight
Average receipts ton per mile, for local freight

\$0 05.589 00.974 11.901 00.993

#### FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

(Company's material excluded.)

a	Freight	Freight received from	Total freig	ht tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.	81	678	709	00.09
Flour	24 16	998	1,022	00.14 00.02
Other mill products	10	133	149	00.02 00.19
Tobacco	112	1,446	1,460	00.18
Tobacco Fruit and vegetables	44	398	442	00.06
Potatoes		489	489	00.07
Products of animals:				
Live stock	42	182	224	00.08
Dressed meats	25	19	44	00.01
Other packing house products  Poultry, game and fish	12	47	59	00.01
Poultry, game and fish		. 7	7	
Hides and leather	4		4	
Products of mines:	1			
Anthracite coal		1,303	1,303	00.17
Bituminous coal Ores		13,605	13,605	01.82
OresStone, sand and other like articles	716,536		716,536	95.96
Stone, sand and other like articles		117 15	117 15	00.02
		1		
Products of forest:		-00	1 000	00.18
Lumber, lath and shingles Charcoal	745	627	1,372	W.10
Other forest products.	858	4,786	5,594	00.75
Manufactures:	İ			
Petroleum and other oils	79	717	796	00.11
Queen	I .	40	<b>  4</b> 0	00.01
Iron, pig and bloom Iron and steel rails		. 1	1	
Iron and steel rails		7	7	
Other castings and machinery	108	117	226	00.08
Bar and sheet metal.	20	31	31	
Cement, brick, and lime.	20	108	128	00.02
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture	1	1 8	2 8	
Wines liganore and boom		580	1 580	00.08
Wines, ilquors and beers	R.C.	71	127	00.01
Tile	1		i	
Merchandise	101	718	819	00.11
Ice		76	76	00.01
Miscellaneous: Other commodities not mentioned above	415	293	708	00.10
Total tonnage	719,133	27,571	746,704	100.00

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company who pays a fixed amount per annum in monthly installments. A general express business.

At the depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

13.72 miles, owned jointly by Western Union Telegraph Company and this company.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### INJURED.

February 15, Otto C. Spindler, passenger brakeman, Bessemer. Scalded by steam from hose coupling. March 14, Mrs. J. Burns, passenger, Ironwood. Bruised; jumping from train while in motion. April 9, Chas. Murphy, bridgeman, Bessemer. Bruised; fell from bridge.

May 29, E. D. Tarboss, switchmah, Ironwood. Finger crushed; coupling cars.
July 21, Mike Rose, Bessemer, section laborer. Back and side injured; run over by hand car.
August 25, V. E. Cunningham, switchman, Bessemer. Beast injured; struck by crank on derrick.
September 28, E. Gage, switchman, Bessemer. Body squeezed; caught between cars on side track and main track.
October 15, Otto Wure, foreman, Bessemer. Head cut; track spread letting cars down dump.
October 16, Geo. Bennett, section laborer, Ironwood. Head cut; chunk of clay struck him.
December 15, Joe Guigere, warehouseman, Ironwood. Foot crushed by trunk falling on it.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.				Injured.		
	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
Coupling cars Derailments Getting on and off trains					1 1		
Miscellaneous.					7		
Total				1	9		

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year	10 10

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen Brakemen Laborers		1 1	
Yardmen		3	
Total		9	!

STATE OF WISCONSIN, COUNTY OF MILWAUKEE, \ \ \ \ ss.

Frederick Abbot, vice president, and Robert Toombs, auditor of the Gogebic & Montreal River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

FRED'K ABBOT, Vice President. R. TOOMBS, Auditor.

Subscribed and sworn to before me this 6th day of March, A. D. 1897.

[L, s.]

EDGAR C. HOE,

Notary Public, Milwaukee County, Wisconsin.

#### OF THE

#### GOGEBIC & MONTREAL RIVER RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 9, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICE 3.

President, EDWIN H. ABBOT, Boston, Mass. Vice President, FRED'K ABBOT, Milwaukee, Wis. Secretary, HOWARD MORRIS, Milwaukee, Wis. Treasurer, EDWIN H. ABBOT, Boston, Mass.

#### DIRECTORS.

EDWIN H. ABBOT, Cambridge, Mass. FRED'R ABBOT, Milwaukee, Wis. THOS. H. GILL, Milwaukee, Wis. JOEM MARTIN, Milwaukee, Wis. HOWARD MORRIS, Milwaukee, Wis. Terms expire January 20, 1867.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: December 27, 1883.

Number of stockholders at date of last election: 6.

Date of annual meeting of stockholders: First Wednesday after third Tuesday in January.

Fiscal year of company ends June 30.

General offices of the company are located at Milwaukes, Wis.

#### REMARKS.

Road leased for 999 years to the Penokee Railroad Co. September 1, 1886. All rights and interest under said lease assigned by Penokee Railroad Company to Wisconsin Central Company May 31, 1888.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$600,000 00
Number of shares issued	
Total amount paid in as per books of the company	600,000 00
Paid in per mile of road owned by company	36,809 82

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds, September 1, 1886 Income bonds, September 1, 1886	5% 5%	March 1, 1987 March 1, 1937	New York City New York City	\$890,000 00 130,000 00
Total funded debt				\$520,000 00
	RECAPITU	LATION.		•
Total funded debt	(16.30 mil	96)		520,000 00 31,901 00 1,120,000 00
DESC	RIPTION	OF ROAD.		
Date when the road was opened for use bety June 6, 1887.	veen its p	resent termini:		
	MAIN L	INE.	Miles	. Miles.
Length completed in Michigan				6.86
	BRANCE	<b>128.</b>		
In Michigan spurs to mines	any in Mi	chigan	16.80	
Same in Michigan Aggregate length of sidings, spurs, and othe Aggregate length of tracks belonging to t	r track n	ot above enumera	ted 13.1	16. <b>3</b> 0
track		ent.combacea as		. 29.42

STATE OF WISCONSIN, }88.

Gauge of track, 4 feet 81/2 inches.

Frederick Abbot, vice president of the Gogebic & Montreal River Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1996, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.] Subscribed and sworn to before me this 6th day of March, A. D. 1897, [L. S.]

FRED'K ABBOT, Vice President.

EDGAR C. HOE,

Notary Public, Milwaukee County, Wis.

#### OF THE

### GRAND RAPIDS & INDIANA RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed May 1, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES McCREA, Pittsburgh, Pa.

Pice President and Treasurer, W. R. SHELBY, Grand Bapids, Mich.
Secretary and Auditor, R. R. METHEANY, Grand Rapids, Mich.
General Manager, J. H. P. HUGHART, Grand Rapids, Mich.
General Counsel, T. J. O'BRIEN, Grand Bapids, Mich.
Division Superintendents,

W. B. STIMSON, Grand Rapids, Mich.
P. S. O'ROURKE, Fort Wayne, Ind.
Chief Engineer, THOMAS RODD, Pittsburgh, Pa.
Superintendent of Telegraph, A. M. SCHOYER, Pittsburgh, Pa.
General Passenger and Ticket Agent, C. L. LOCKWOOD, GrandRapids, Mich.
General Freight Agent, E. C. LEAVENWORTH, Grand Rapids, Mich.

#### DIRECTORS.

JAMES MCCREA, Pittsburgh, Pa.
J. T. BROOKS, Pittsburgh, Pa.
JNO. R. DAVIDSON, Pittsburgh, Pa.
JOSEPH WOOD, Pittsburgh, Pa.
W. R. SHELBY, Grand Rapids, Mich.
T. J. O'BRIEN, Grand Rapids, Mich.
H. J. HOLLISTER, Grand Rapids, Mich.
Terms expire March 2, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 11, 1896.
Number of stockholders at date of last election: 184.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$167,000.
Date of annual meeting of stockholders: First Wednesday in March.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Mich.

#### GENERAL EXHIBIT.

For the period January 1, to July 81, 1896.		
Total earnings from operation	\$982,027 25	\$1,142,241 43
Net income	·	\$160,214 18
Interest on funded debt	283,040 81 39,763 80	
Balance for the year. Balance (profit and loss) last year. Ltems not included in above, as follows:	162,589 98 3,797,175 01	
Old accounts paid Construction and equipment charged to income Balance forward to next year	29,652 32	3,990,699 95
NOTIONAL TATA AN WAY AND A AND THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF		\$3,990,699 95

#### GENERAL EXHIBIT.

GENERAL E	zamibii.		
riod August 1,	to December 81, 18	96. Debit.	Credit.
			\$923,373 16
			\$182,288 87
		5,578 58	
			8,786 32
		\$186,025 19	\$186,025 19
YSIS OF CA	PITAL STOCK.		
es of associati	lon	100 00	\$6,000,000 00
	55,697	\$5,569,760 00	1
of the compar	<b>y</b>		5,569,700 00
any, 484.69 mi	les		12,818 04
	DEBT.		
Rate of interest.	When due.	Where payable.	Amount outstanding.
7% 7%	Oct. 1, 1899 Oct. 1, 1899	New York	\$18,000 00 86,000 00 1,367,000 00 3,959,000 00 8,962,000 00
18	July 1, 1941 Oct. 1, 1986	New York Philadelphia	3,959,000 00 8,962,000 00
			\$9,887,000 00
Unfundre	DEBT.		
Is the same t	o be funded or how	v liquidated?	Amount.
			\$3,454 71 150,000 00
			150,000 00 840,481 11 845,582 00
			\$839,417 8
BEGAPITH	LATION.		
			. \$9,887,000 0
			. 889,4178
	Avgust in the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same to the same	August 1, to December 81, 18  August 1, to December 81, 18  August 1, to December 81, 18  August 1, to December 81, 18  August 1, to December 81, 18  August 1, to December 81, 18  August 1, to December 81, 18  August 1, 18  August 1, to December 81, 18  August 1, 18  August 1, to December 81, 18  August 1, 18  August 1, to December 81, 18  August 1, 18  August 1, to December 81, 18  August 1, 18  August 1, to December 81, 18  August 1, 18  August 1, to December 81, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  August 1, 18  Augu	\$741,084 29   180,451 66   5,578 58   5,578 58     \$186,025 19

#### GENERAL BALANCE SHEET.-DR.

Construction account		15,056,700 00
Cash items:  Cash  Due from agents	\$407,675 06 69,090 55	476,765 61
Other assets:  Materials and supplies  Debit balances from companies and individuals		\$215,662 76
Total		15,749,128 87
GENERAL BALANCE SHEET.—Cr.		
Capital stock		\$5,569,700 00 9,887,000 00
Unfunded debt: Interest unpaid Vouchers and accounts	\$161,891 17 183,640 88	
Other liabilities (list as follows:)  Mortgage on real estate.  Due other companies,	150,000 00 71,625 00 8,454 71 174,846 85	
Excess of current assets of G. R. & I. R. E. Co. applicable to payment or unadjusted current liabilities of G. R. & I. R. R. Co		889,417 89 8,010 48
Total		15,749,128 87
COST OF BOAD AND EQUIPMENT.		
When purchased: August 1, 1896. Original cost to present company, of road and equipment Total cost to date of report. Average cost per mile of road (not including sidings) Proportion of cost for Michigan		15,056,700 00 15,056,700 00 84,687 79 13,877,612 52

Total transportation earnings, entire line.  Transportation earnings per mile of road  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transporta-	4 111 88
tion, as follows:  From telegraph companies \$10,214 88  From rents of tracks, yards and terminals 7,999 80  From rents not otherwise provided for 1,597 61	
Total	19,812 24
Distribution of miscellaneous earnings between main line and leased or proprietary roads  Company: Grand Rapids & Indiana Railroad	Proportion for Michigan, \$18,667 15 280 70 238 09
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan Total income from all sources	4,151 65 1 18 1,775,098 17 4,007 17
Proportion of income for Michigan.	
Lobolnion or income intractingen	4,110,000 17
ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway.	\$159,618 44
Renewals of rails Renewals of tiee Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses	71,595 74 87,499 41 14,813 11 12,849 32 30,387 18 188 68 4,380 40 35 18
Total	\$388,184 20
MAINTENANCH OF EQUIPMENT.	,
MAINTENANCH OF EQUIPMENT.  Superintendence	\$9,642 97 120,926 87 68,627 14 129,140 01 6,152 07 8,154 72 747 54 4,588 07
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Finel for locomotives  Water supply for locomotives Oil, tallow and waste for locomotives Train service.  Train service.  Switchmen, flagmen and expenses Switchmen, flagmen and watchmen Telegraph expenses Station supplies Station supplies Car mileage—balance Car mileage—balance Hire of equipment Loss and damage Injuries to persons Clearing wrecks. Advertising Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property. Stationery and printing Other expenses	\$36, 592 84 26, 455 77 170, 818 38 8, 839 47 5, 348 77 1428 90 234, 135 77 28, 839 47 67, 387 65 228, 290 28 143, 638 48 15, 477 96 21, 332 05 2, 076 77 4, 558 90 6, 430 11 2, 384 76 9, 360 44 20, 156 99 34, 537 44 1, 597 19 18, 147 03 986 57
	=======================================

500.52

# GRAND RAPIDS & INDIANA RAILWAY COMPANY. GENERAL EXPENSES. \$16,426 61 81,188 18 4,589 69 2,919 47 5,292 92 2,788 56 60,993 20 Salaries of general officers Salaries of cierks and attendants General office expenses and supplies Law expenses Stationery and printing (general offices) Other expenses Total \_\_\_\_\_ 2124,006 58 RECAPITULATION OF EXPENSES. Per cont of expenses. 883,164 20 887,928 89 877,800 87 22 24 19.61 Conducting transportation General expenses, including taxes 50.95 7.20 124,008 58 100.00 \$1,728,111 54 Total operating expenses and taxes..... Leased or proprietary roads: Kuskegon, Grand Rapids & Indiana R. R. Traverse City Railroad. 90,240 00 27,657 90 Total proportion of expenses for Michigan \$1,522,891 47 672 31 DESCRIPTION OF ROAD. Date when the road was opened for use between its present termini: From Fort Wayne, Indiana, to Mackinaw City, Michigan, July, 1882. From Milton Junction, Michigan, (branches to Carey, Michigan, 1882. From Regome, Michigan, to Harbor Springs, Michigan, 1882. From Missaukse Junction, Michigan, to Lake City, Michigan, 1890. From Jennings Spur Junction, Michigan, to Jennings Michigan, 1882. From Lake City, Michigan, to 5 50 miles east of Lake City, Michigan, 1894. From 4 67 miles east of Lake City, Michigan, to 1 69 miles south of Herrick's Spur, Michigan, 1894. From Oscsola Junction, Michigan, to Olga, Michigan, 1885 From Big Rapids, Michigan, to Vincent, Michigan, 1890. From Bear Lake Junction, Michigan, to Bear Lake, Michigan, 1892. MAIN LINE. Miles. Miles 58.11 Total length completed ..... 366.59 Length of double track on main line 11.59 Lake City Missaukee Branch, from Veneer Co. Spur—4.67 m'les east of Lake City—to 1.69 miles south of Herrick's Spur Missaukee Branch, from Jennings Spur—from Jennings Spur Junction—to 5.39 1.69 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 3 0 Manistee Branch, from Milton Junction to Carey. Manistee Branch, from Haak's Spur-Haak's Spur Junction—to Haak's Mill. Oscools Branch, from Oscools Junction to Olga. Harbor Springs Branch, from Kegomic to Earbor Springs. Ludington Branch, from Stimson Junction to Merritts. Pisster Mill Spur, from Bartlett Street Junction to South Grand Rapids. Bear Lake Branch, from Bear Lake Junction to Bear Lake. 14.54 4 09 9.78 5.76 5.84 1.07 Total length of branches owned by company ...... 66.65 Total length of branches owned by company in Michigan 65.65 Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated. Aggregate length of tracks in Michigan belonging to this company, computed as single 495.34 **380 13**

# Proprietary or leased roads operated by this company.

, _	Trailes. Is	-
Muskegon, Grand Rapids & Indiana Raliroad Traverse City Bailroad Cincinnati, Richmond & Fort Wayne Railroad	86.85 28.00 85.60	36.85 26.00
Total		62.85
Total miles operated by the company	584.79	442.96
Number of bridges and treetles in Michigan.	Number, L	åggregate ength, feet.
Wooden bridges	8	615.0
Iron bridges		18.8 1,8 <b>59.</b> 5
Wooden trestles	7	1,075 0 11,052.0
Total	177	14,120.8
Crossings.—Rattroad and highway.		
What railroads cross your road at grade in this State, and at what locality?		
L. S. & M. S. R. at Storges, Plainwell Kalamazoo and Grand Rapids, Michigan Central R. R. at Wasepi and Kalamazoo. Chicego & Grand Trunk R. R. at Vicksburgh.		
C., J. & M. R. R at Monteith. C & W M R B at Grand Rapids, Mill Creek, Fruitport Junction, Muskeg	on and Traver	na Citte.
Detroit, Grand Haven & Milwaukee R. R. at Grand Rapids.	01 011 112701	ao City.
Detroit Grand Rapids & Western R. R. at Grand Rapids and Big Rapids. Toledo, Saginaw & Muskegon R. R. at Cedar Springs.		
Flint & Pere Marquette R. R. at Reed City.		
Ann Arbor R R at Cadillac. C. & N E R R, at (adulac.		
Kalkaska Lumber to R. R. at Kalkaska.  Mancelona & Northwestern R. R. at Mancelona.		
Frederick & Charlevoix R. R at Alba,		
What railroads cross your road either over or under your grade in this State, Over:	and where?	
Detroit, Grand Haven & Milwaukee R. R. near Kinney.		
t what crossings are interlocking and detailing switches in operation? Michigan entral R. R. at Wesepi and Kalamazoo. C. & W. M. R. R. at Grand Rapids and Traverse City.		
D., G. R. & W. R. R. at Grand Rapids. Toledo, Saglasw & M. iskegou R. R. at Cedar Springs. Ann Arbor R. R. at Caddlac C. & N. E. R. R. at addlac.		
Kalkaska Lumber Co R R at Kalkaska.		
M. & N. E. R. R. at Mencelona. Frederick & Charlevoix R. B. at Alba.		
What pattern or patterns have you adopted? Union Switch and Signal Co., Gravitt, Wharton, Johnson, Allentown.		
Number of crossings of highways at grade in this State	*******	560
Number of crossings of highways at grade in this State at which there are gat Number of crossings of highway over or under railroad; over 5; under 2		43 7 5
Have safety guards been erected at overhead obstructions?		
Are your frogs and guard rails blocked as required by act 174, session laws 184 Yes.	381	
How are they treated? Wooden blocks.		
Stations.		
Number of stations on whole lines.  Same in Michigan		150 122
Employés.		<del></del>
Number of persons regularly employed on all roads operated by company, inclu	ding officials	2,265
Same in Michigan		1,971

Oll 14				
Classify your employés as per follow	ing list:			Number.
Baggagemen	-			24
Brakemen				181
Conductors				62
Engineers				92
Firemen				_93
Laborers				520 <b>306</b>
Shopmen Yardmen				148
Others				889
~ · · · · · · · · · · · · · · · · · · ·			=	
	REPAIRS AND RE	NEWALS.		
	Fencing in Mi	•		
How many miles of fencing have you Give the number of miles required to	17	4L -120	ar in Minhian	887
and the counties in which needed	ombiere rence po	m states of your tra-	OF III MICHIRAL!	
Newaygo, Mecosta, Osceola, Lake,	Wexford, Missauk	ee, Grand Traverse,	Emmet	46
			=	
	Road bed and	track.		
Number of track sections in Michiga	n			97
Average lengths of sections miles				4.6
Average number of men in each sections, Number of new ties put in whole lin Number of new ties put in track in Average number of new ties per mile	lon gang			2.87
Number of new ties put in whole lin	e during the year Michigan	• • • • • • • • • • • • • • • • • • • •		261,096 214,227
Average number of new ties per mile	of road			449
New rails put in track: Steel, tons, 8,297.599 miles				
Steel, tons, 3,297.599 miles	-11-			29.99 29.99
Total miles of track laid with new r	aus		= =	20.00
	Bridges and co	ulverts.		
	_			
Amount of trestle work replaced wit	h earth during the	year, linear feet		898
Timber culverts replaced during the With iron pipe—number	year:			16
With sewer pipe—number				5
With timber—number				9
New bridges built during the year				8
			=	<del>_ ·</del>
				Fast in
Location.	Kind.	Material.	Month built.	Feet in length.
Location.	Kind.	Material.	Month built.	
				length.
	Tractic timbor	Timber	Angust	length.
	Trestle timber	Timber	August	73
North of M. P., 31	Trestle timber Trestle timber Trestle piles	Timber	August November	73 14 60
North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles	TimberTimber	August November October	73 14 60 48
North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles	Timber	August	73 14 60 48 178
North of M. P., 31	Trestle timber Trestle timber Trestle piles	TimberTimber	August	73 14 60 48
North of M. P., 31 North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch.	Trestle timber Trestle timber Trestle piles Trestle piles	Timber	August	73 14 60 48 178
North of M. P., 31 North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch.	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles	Timber	August	73 14 60 48 178
North of M. P., 31 North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch.	Trestle timber Trestle timber Trestle piles Trestle piles	Timber	August	73 14 60 48 178 64 24
North of M. P., 31	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles ROLLING ST	Timber	August	73 14 60 48 178 64 24
North of M. P., 31 North of M. P., 118	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST	Timber	August November October Aug. and Sept April September Pre Number 62	73 14 60 48 178 64 24 seent esti- ed value.
North of M. P., 31 North of M. P., 118. D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST	Timber	August November October Aug. and Sept. September Pre Number mai	73 14 60 48 178 64 24 24 24 24 24 24 24 24 24 24 24 24 24
North of M. P., 31 North of M. P., 118	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI  30 tons weight, exclusiv	Timber	August	73 14 60 48 178 64 24 eent esti- ed value, 408,000 00 8,000 00
North of M. P., 31 North of M. P., 118	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI  30 tons weight, exclusiv	Timber	August	73 14 80 48 178 64 24 24 24 24 24 26 3,000 00 3,000 00 406,000 00
North of M. P., 31	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, exclusiv  including official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official con	Timber	August	73 14 80 48 178 64 24 24 24 24 24 26,000 00 3,000 00 406,000 00
North of M. P., 31 North of M. P., 118	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI  a 30 tons weight, excusiv , including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of including official of includin	Timber	August	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
North of M. P., 31 North of M. P., 31 North of M. P., 118 D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.  Number of passenger cars—12-wheel, Number of express and baggage cars.	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, exclusive including official of including official of including official of the state of the state	Timber	August	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
North of M. P., 31 North of M. P., 31 North of M. P., 118 D., G. H. & M. Junction Cedar Springs Morley Herrick's Branch West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to Total  Number of passenger cars—12-wheel, Number of express and baggage car Number of box freight cars Number of stock cars Number of platform cars	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, exclusive including official controlled including official controlled	Timber	August	eent esti- eent esti- ed value. 408,000 00 57,000 00 125,000 00 55,000 00 14,750 00
North of M. P., 31 North of M. P., 31 North of M. P., 118 D., G. H. & M. Junction Cedar Springs Morley Herrick's Branch West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to Total  Number of passenger cars—12-wheel, Number of express and baggage car Number of box freight cars Number of stock cars Number of platform cars	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, exclusive including official controlled including official controlled	Timber	August	eent esti- eent esti- ed value. 408,000 00 57,000 00 125,000 00 55,000 00 14,750 00
North of M. P., 31 North of M. P., 118	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI  a 30 tons weight, excusive, including official of including official of including official of second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	Timber	August	eent esti- ed value, 8,000 00 8,000 00 125,000 00 125,000 00 1406,000 01 14,700 00 17,250 00 17,250 00 17,250 00
North of M. P., 31 North of M. P., 31 North of M. P., 118 D., G. H. & M. Junction. Cedar Springs. Morley. Herrick's Branch West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.  Number of passenger cars—12-wheel, Number of express and baggage car Number of box freight cars. Number of stock cars. Number of platform cars. Number of ore cars. Number of conductors' way cars. Other cars.	Trestle timber Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, exclusive including official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding official concluding off	Timber	August	eent esti- ed value, 8,000 00 8,000 00 125,000 00 125,000 00 1406,000 01 14,700 00 17,250 00 17,250 00 17,250 00
North of M. P., 31 North of M. P., 118	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING SI  a 30 tons weight, excusive, including official of including official of including official of sections.	Timber	August	eent esti- ed value, 8,000 00 8,000 00 125,000 00 125,000 00 1406,000 01 14,700 00 17,250 00 17,250 00 17,250 00
North of M. P., 31 North of M. P., 118 D., G. H. & M. Junction Cedar Springs Morley. Herrick's Branch West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to  Total  Number of passenger cars—12-wheel, Number of express and baggage car Number of stock cars Number of stock cars Number of passenger cars—Swings car Number of passenger cars—Swings car Number of conductors' way cars Derrick Pile driver	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles ROLLING ST  a 30 tons weight, exclusiv , including official of including official of including official of sections.	Timber	August	eent esti- ed value, 8,000 00 8,000 00 125,000 00 125,000 00 1406,000 01 14,700 00 17,250 00 17,250 00 17,250 00
North of M. P., 31 North of M. P., 118. D. G. H. & M. Junction. Codar Springs Morley. Herrick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.  Number of passenger cars—12-wheel Number of passenger cars—3-wheel, Number of express and baggage car Number of of orgens and baggage car Number of stock cars Number of stock cars.  Number of platform cars. Number of orders.  Number of orders.  Number of oonductors' way cars.  Other cars.  Derrick	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles ROLLING ST  a 30 tons weight, exclusiv , including official of including official of including official of sections.	Timber	August	eent esti- ed value. 408,000 00 122,000,00 57,000 00 125,000 00 1406,000 00 1407,000 00 177,250 00 177,250 00 177,000 00
North of M. P., 31 North of M. P., 118. D. G. H. & M. Junction. Cedar Springs Morley. Herrick's Branch West of M. P., 15.  Number of locomotives of more than Number of locomotives of 20 to 30 to Total.  Number of passenger cars—12-wheel, Number of passenger cars—8-wheel, Number of express and baggage cars Number of stock cars Number of stock cars Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars. Number of ore cars.	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, excusive a including official of the piles  Including official of the piles  a second piles  Trestle piles  ROLLING ST	Timber	August	eent esti- ed value. 408,000 00 408,000 00 408,000 00 122,000 00 122,000 00 14,700 00 121,000 00 17,250 00 17,250 00 17,000 00
North of M. P., 31 North of M. P., 118 D., G. H. & M. Junction Cedar Springs Morley. Herrick's Branch West of M. P., 15  Number of locomotives of more than Number of locomotives of 20 to 30 to  Total  Number of passenger cars—12-wheel, Number of express and baggage car Number of stock cars Number of stock cars Number of passenger cars—Swings car Number of passenger cars—Swings car Number of conductors' way cars Derrick Pile driver	Trestle timber Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles Trestle piles  ROLLING ST  a 30 tons weight, excusive a including official of the piles  Including official of the piles  a second piles  Trestle piles  ROLLING ST	Timber	August	eent esti- ed value. 408,000 00 122,000,00 57,000 00 122,000,00 55,000 00 127,250 00 13,000 00 17,250 00 17,250 00

Number of locomotives equipped with power brakes.  Number of passenger-train cars equipped with power brakes.  Number of freight cars equipped with power brakes.	63 92 580
What patterns of power brakes have you in use, and number of locomotives and cars with each? All Westinghouse.	
Are your freight cars being equipped with automatic couplers as required by act No. 147, session of 1885, as amended by act No. 88, session laws of 1887? Yes.	laws
What pattern or patterns have you adopted for use?  Jamey.	

How are your passenger cars heated. Steam.

#### MILEAGE TRAFFIC, ETC.

Train mileage.		Entire lives. In	Michigan.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.	• • • • • • • • • • • • • • • • • • • •	774.809	774,560 642,880 84,078 1,501,518
Down and the Date of the Control		,	
Passenger traffic.—Entire lines.			_
Number of through passengers carried, earning revenue	Numbers 49,975 908,344	<b>i</b>	Rate.
Total number of passengers carried, earning revenue	958,319	)	
Number of passengers carried one mile		29.48	90 64 2.019
Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			2.182 2.169
Passenger traffic.—In State of Michi	igan.		
	Numbers	Miles.	Rate
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	50,086 775,72		
Total number of passengers carried, earning revenue	825,811	l	
Average distance carried		83.79	90 64
Average amount received from each passenger.  Average receipts per mile for through passengers.			2.019
Average receipts per mile for local passengers			1.876
Average receipts per passenger per mile for all passengers	•		1.887
Freight traffic.—Entire lines.			
	Tons	. Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	167,759 1,438,112		
Total tons of freight carried, earning revenue	1,605,87		
Total mileage of through freight		. 18,118,856 .135,597,762	
Total freight mileage or tons carried one mile			
Average ton haul for through freight  Average ton haul for local freight.		108.00 94.29	
Average ton haul for all freight	••••••	95.72	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.			\$0 82 00.726 00.872 00.855

Freight traffic.—In State of Mich	igan.		
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	176,792 1,192,594		
Total tons of freight carried, earning revenue	1,869,886		
Total mileage of through freight.	1	8,888,852	
Total mileage of local freight  Total freight mileage or tons carried one mile.	12	8,066,181 8 880 099	
Average ton haul for through freight		106.81	
Average ton haul for local freight		106.21	
Average ton haul for all freight		106.29	
Average amount received for each ton haul			<b>\$</b> 0 82
Average receipts ton per mile, for through freight			00.651
Average receipts ton per mile, for local freight.			00.790 00.772

#### FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

#### Company's material excluded.

Commodition	Freight originating	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.	21,926	24,809	46,235	2.88
Flour Other mill products. Hay	11,175	98,640 22,248	109,815 26,712	6.84
Uther mill products	4,464 8,797	15,618	19.410	1.66 1.21
Tohenno	82	1.992	2,074	.18
Tobacco Fruit and vegetables.	40,518	18,015	58,528	8.64
Other articles	1,418	9,458	10,876	.68
Products of animals:				
Live stock	4,587	1,603	6,190	.39
Dressed meats	1,040	4,584 275	5,574	.85
Other packing house products  Poultry, game and fish	552	309	851 861	.02 .05
Wool	303	807	610	.04
Wool	1,845	2,957	4,802	.30
Other articles	1,658	517	2,175	.14
Products of mines:				
Anthracite coal	9	23,898	28,907	1.49
Bituminous coal	472	118,140	113,612	7.07
Coke	28	3,882 55,888	3,910 55,888	.24 8.48
Ores Stone, sand and other like articles	36,818	8,278	39,591	2.47
Salt	278	5,656	5,934	.87
Products of forest:	ļ			
Lumber Logs, shingles and other articles	225,008 362,288	126,635 93,421	351,638 455,659	21.91 28.38
Manufactures:			}	
Petroleum and other oils	2,503	14,029	16,584	1.08
Sugar	3.855	7,619	11.474	.71
Iron, pig and bloom Iron and steel rails Other castings and machinery	24,678	8,291 3,939	27,969	1.74
Iron and steel rails.	1,629	3,939	5,618	.85
Other castings and machinery	7,888	15,937	23,825	1.48
Bar and sheet metal	4,630	14,218 12,386	15,112 17,016	.94 1.06
Agricultural implements	1 1.021	2,216	1 9 997	20
Wagons, carriages, tools, etc.	3,697	861	4,558	. 28
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture.	3,185	2,666	5.851	.20 .28 .86
Household goods and furniture	20,421	5,832	25,758	1.60
Other manufactures	25,508	42,175	67,683	4.21
Merchandise	7,646	5,706	18,852	.83
Miscellaneous:				
Other commodities not mentioned above	21,194	2,393	28,587	1.47
Total tonnage.	846,588	759,888	1,605,871	100.00

#### FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

#### Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freigh	,561 2.74 ,541 7.98 ,796 1.88 ,137 1.82 ,505 0.4 ,583 9.912 .72 ,113 .23 ,495 .40 ,333 .02 ,459 .03 ,510 .04 ,225 .31	
Commontey.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	16,830	21,281 97,895	37,561		
Flour	10,646	97,895	108,541	7.98	
Other mill products	4,852	21,414	25,796		
Hay		15,255 837	18,187		
Tobacco Fruit and vegetables	168 39,615	14,968			
Other articles	1,234	8,678	9,912	.72	
Products of animals:					
Live stock	1,770	1,343	8,113	.23	
Dressed meats	999	4,496	5,495	.40	
Other packing house products	72	263		.02	
Poultry, game and fish Wool Hides and leather	198	261		.08	
W001	257	253	510		
Other articles.	1,809 744	2,416 488	1,182	.09	
Products of mines:					
Anthracite coal		8,115	8,115	.23 2.02	
Bituminous coal		27,632 1,273	27,632	2.02	
Coke		1.273	1,278	.09	
OresStone, sand and other like articles		55,768	າ ວວ./ຫວ່າ	4.07	
Stone, sand and other like articles	33,780 375	1,669 4,801	85,449 5,176	2.59 .38	
Products of forest:					
Lumber. Other articles	223,692	104,674	382,366	23.98	
Other articles	359,854	89,852	449,206	82.80	
Mauufactures: Petroleum and other oils	1.851	6,328	8,179	.60	
Sugar	3,255	8,817	7,072	.52	
Iron, nig and bloom	23.641	929	24,570	1,79	
Iron, pig and bloom Iron and steel rails	1,653	8,545	5.198	.88	
( It has coatings and machinery	1 5.778	6,610	12,386	.90	
Bar and sheet metal	636	7,254	7,890	.58	
		7,521	11,569	.84	
Agricultural implements	1,021	1,100	2,121	.15	
Wagons, carriages, tools, etc.	2,789	480	3,269	.24	
Wines, liquors and beers	3,009	1,188	4,197	.31	
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture Other manufactures	19,645 23,988	4,263 25,390	23,908   49,378	1.75 3.6I	
Merchandise	6,637	3,991	10,628	.78	
Miscellaneous: Other commodities not mentioned above	20,523	2,159	22,682	1.66	
Total tonnage	817,249	552,187	1,369,386	100,00	

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Adams Express Co.; 47% per cent of gross earnings. All freights received and delivered at depots The above covers all lines operated by this company.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?	Miles.
Telegraph wire belonging to this company Telegraph wire belonging to Grand Rapids Herald Co Telegraph wire belonging to L. S. & M. S. R'y Co.	
Telegraph wire belonging to L. S. & M. S. R'y Co.	3.5
Total	1,128 3

#### TRANSPORTATION COMPANIES.

### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have during the year been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

	Amount paid.
Wagner Palace Car Co., New York, terms 1% cents per mile	48,367 19 1,197 00

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

March 17, Burt Hunt, Reed City. Lack of caution; highway crossing
March 17, C. A. Lillie, Reed City. Lack of caution; highway crossing.
July 27, James Grummit, treepasser, near Bockford. Lack of caution; treepasser.
September 16, Chas. Hawkins, treepasser, near Petoskey. Lack of caution; treepasser.
October 5, D. Cupples, employé, near Missaukee Junction. Train struck hand car, careleganess.
October 6, John Hobbins, employé, Grand Rapids. Stepped on track ahead of engine. Lack of caution.
October 25, D. Van Middesworts, Grand Rapids. Highway collision; lack of caution.
October 31, James Vent, Brutus. Fell from train; treepasser.

### INJURED.

```
January S. Jno. Miene, brakeman, Conklin Fell off car; accidental.

January 20, S. B. Ellsworth, brakeman, Tustin. Coupling; lack of caution.

January 31, M. S. Johnson. Oden Fell foun train, lack of caution.

January 31, W. S. Johnson. Oden Fell foun train, lack of caution.

Jenuary 31, W. S. Johnson. Oden Fell foun train, lack of caution.

February 4, W. M. Swen, an, brakeman, Cadillac Chmbing on car, carelessness.

February 5, Tru white, laborer, Farrington Fell on track, accidental.

February 1, W. Losey, brakeman, Grand Eapids Chupling; lack of caution.

February 1, T. W. Losey, brakeman, Grand Eapids Injured by truck, accidental.

February 12, Theodore Hill, Morley Attempting coupling, freepasser

February 13, Theodore Hill, Morley Attempting coupling, freepasser

February 13, Theodore Hill, Morley Attempting coupling, accidental.

February 14, Theodore Hill, Morley Attempting coupling, accidental.

February 15, Tracis Powers Grand Rapids Coupling; accidental.

February 21, Pancis Powers Grand Rapids Coupling; accidental.

February 21, Francis Powers Grand Rapids. Unloading freight, accidental.

March 2, Vrace Burpham Child, Grand Rapids, Unloading freight, accidental.

March 2, Vrace Burpham Child, Grand Rapids, Burhway crossing, traspasser.

March 3, Nieucer Tritt, Belmont Jouned of Senjue, steathing rice trespasser.

March 3, W. S. Ewass, brakeman, Grand Rapids, Coupling, accidental.

June 24, Geo. Young, transp. Howard Play.

June 24, F. Koulling, accidental.

June 24, Geo. Young, transp. Howard Play.

July 25, Miss E. Burgser, Big Rapids. Foll Trum our, accidental.

July 26, C. R. Royet, framp. Howard Play.

July 26, Miss Liste Short, Marton. Clearing wrech; accidental.

July 26, C. R. Royet, Rap. Derailment of train; trespasser.

August 21, Paul Obershow, Milton Junction. Derailment of train; trespasser.

August 21, Was Eburger, Big Rapids. Thrown from carriage.

July 26, Miss Listes Power of France, Rapids. Coupling; carcidental.

Beytember 19, F. Magusen, Muskegou. Thrown from carriage.

October 4
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#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Collisions		1				
Coupling cars Derailments Falling from trains			1	1	11 2 2	
Highway crossings		i	3		ii	
Trespassers on tracks			2			
Total		2	6	1	26	1

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	8
Number of persons injured during the year	45
Number of casualties purely accidental.	19
Number resulting from lack of caution, carelessness or misconduct	20
Trespassers and tramps killed or injured	14

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Engineers	2	18	15
Firemen Laborers Vardmen Not classified above		5 4 2	5. 4 2
Total	2	26	28

# STATE OF MICHIGAN, SS. COUNTY OF KENT,

W. R. Shelby, vice-president, and R. R. Metheany, auditor of the Grand Rapids & Indiana Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

W. R. SHELBY, Vice-president. R. R. METHEANY, Auditor.

Subscribed and sworn to before me this 29th day of April, A. D. 1897.

[L. S.]

FRANK L. DANFORTH,

Notary Public, Kent County, Michigan.

OF THE

# MUSKEGON, GRAND RAPIDS & INDIANA RAILROAD COMPANY.

For the year ending December 81, 1896.

[Filed May 8, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, W. O. HUGHART, Grand Bapids, Mich. Secretary, R. R. METHEANY, Grand Rapids, Mich. Treasurer, W. R. SHELBY, Grand Rapids, Mich. Transfer Agent, R. R. METHEANY, Grand Rapids, Mich.

#### DIRECTORS.

W. O. HUGHART, Grand Rapids, Mich.
W. R. SHBLBY, Grand Rapids, Mich.
T. J. O'BRIEN, Grand Rapids, Mich.
J. H. P. HUGHART, Grand Rapids, Mich.
R. R. METHBANY, Grand Rapids, Mich.
L. N. KRATING, Muskegon, Mich.
N. McGraft, Muskegon, Mich.
Term expires, March 1, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When articles of association filed: February 12, 1886.
Number of stockholders at date of last election: 8.
Number of stockholders at same date, in Michigan: 8.
Amount of full paid stock held in Michigan at same date. \$1,000.00.
Date of annual meeting of stockholders: First Wednesday in March.
Fiscal year of company ends December 31.
General offices of the company are located at Grand Rapids, Mich.

#### REMARKS.

Operated by the Grand Rapids & Indiana Railway Company. Terms: Net earnings.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$850,000 00
Par value of shares \$100 No. of shares issued 200	
Amount paid in on common \$1,000 00	
Total amount paid in, as per books of the company	1,000 00
Paid in per mile of road owned by company	27 14

#### ANALYSIS OF DEBT ACCOUNTS.

#### PUNDED DERT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, June 9, 1886.	5%	July 1, 1926	New York	\$750,000 00

These bonds were issued by the Grand Rapids & Indiana Railroad Company, and were secured by a first mortgage on the railroad and property of the Muskegon, Grand Rapids & Indiana Railroad.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For miscellaneous	Coupons to be paid	\$99,075 00

#### ANALYSIS OF DEBT ACCOUNTS.

#### RECAPITULATION.

Total unfunded debt	99,075 00
Total debt liabilities	\$849,075 00
Amount of debt liabilities per mile of road, 36.85 miles.  Total amount of stock and debt.  Stock and debt per mile of road.	28,041 44 850,075 00 23,068 52
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year	\$87,500 00
If interest is in default state the years and amounts as follows: Six months interest due January 1, 1895. (Paid February 1, 1897). Six months interest due July 1, 1895. Six months interest due January 1, 1896. Six months interest due July 1, 1896. Six months interest due January 1, 1897.	18,750 00 18,750 00 18,750 00 18,750 00 18,750 00

COST OF ROAD AND EQUIPMENT. TOTAL COST FOR CONSTRUCTION AND EQUIPMENT OF BOAD, AND BRANCHES BUILT BY COMPANY.

Total expended for construction.	\$746,978 21
Average cost of construction per mile of road (not including sidings), 36.85 miles	20,270 78
Proportion of cost of construction for Michigan	746,978 21

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 1, 1886.

MAIN LINE.		
	Miles.	Miles.
Length completed in Michigan	36.85	
Total length completed.  Total length of road belonging to this company		36.85
Total length of road belonging to this company		36.85
Total length of road belonging to this company in Michigan	36.85	
Aggregate length of sidings, spurs, and other tracks not above enumerated		8.12
Same in Michigan Aggregate length of tracks belonging to this company, computed as single track.	8.12	
Aggregate length of tracks belonging to this company, computed as single track		44.97
Same in Michigan	44.97	

Gauge of track: 4 feet 9 inches.

OF THE

### TRAVERSE CITY RAILROAD COMPANY.

For the year ending March 81, 1896.

[Filed May 1, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, PERRY HANNAH, Traverse City, Mich. Secretary, R. R. METHEANY, Grand Rapids, Mich. Treasurer, W. R. SHELBY, Grand Rapids, Mich. Transfer Agent R. R. METHEANY, Grand Rapids, Mich.

#### DIRECTORS.

PEERY HANNAH, Traverse City, Mich.
W. H. C. MITCHELL, Traverse City, Mich.
THOS. T. BATES, Traverse City, Mich.
D. C. LEACH, Traverse City, Mich.
W. O. HUGHAET, Grand Rapids, Mich.
W. R. SHELBY, Grand Rapids, Mich.
J. H. P. HUGHAET, Grand Rapids, Mich.
Term expires May 6, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 30, 1871.

Number of stockholders at date of last election: 78.

Number of stockholders in Michigan at same date: 72.

Amount of full paid stock hold in Michigan at same date: \$35,400.00

Date of annual meeting of stockholders: Thursday after first Wednesday in May.

Fiscal year of company ends December 31.

General offices of the company are located at Traverse City, Mich.

#### REMARKS.

Operated by Grand Rapids & Indiana Railway Co. Terms: net earnings.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		\$205,000 00
Par value of shares	\$100 00	
Average price received per share	100 00	
Number of shares issued	907 900 00	
Amount paid in on common	205,000 00	
Total amount paid in, as per books of the company		\$205,000 00
Paid in per mile of road owned by company		7,884 62

Gauge of track, 4 feet 9 inches.

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEST.

		PUNDED I	EBT.		
Class, character and date of i	issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, January 1, 1883		8%	January 1, 1983.	New York	\$250,000 00
Income mortgage, January 1, 18	88 {	exceed 5%	January 1, 1988.	New York	190,000 00
Total funded debt		••••••			\$440,000 00
	. 1	UNFUNDAD	DEBT.		
For what incurred.	Is t	the same to	be funded or ho	w liquidated.	Amount.
For miscellaneousFor current balances					
Total unfunded debt					\$12,058 63
	. ,	RBCAPITUI	ATION.		
Total funded debt Total unfunded debt	<del></del>				. \$440,000 00 . 12,053 68
Total debt liabilities					
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road					657,058 63
	INTERES	T ON THE	FUNDED DEBT.		
What is the amount of same due was it paid for the last year? No If interest is in default state the six months' interest due Janua Six months' interest due July 1, Six months' interest due Janua	ry 1, 1896 ( , 1896	paid Febr	lary 1, 1897)	\$8,750 C	0 0
C	OST OF	ROAD AN	D EQUIPMENT.	•	
Total cost for construct	ion and e	quipment c	f road and brane	kes built by compo	iny.
Total expended for construction. Average cost of construction per r Proportion of cost of construction	mile of room for Mich	ad (not inc	luding sidings) 2	8 miles	24,856 47 646,268 1
	DESC	RIPTION	OF ROAD.		•
Date when the road was opened f December 1, 1872.	or use bet	tween its p	resent termini:		
·		MAIN L			Miles
Length completed in Michigan Total length of road belonging to	this com	pany in Mi	chigan	26.0	
Aggregate length of sidings, spur- Aggregate length of tracks be	s, and oth	er tracks i	iot above enumer	ated	4.8 30.8

#### OF THE

#### HANCOCK & CALUMET BAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed April 5, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. B. ELDRIDGE, Marquette, Mich.
Vice President, J. M. WILKINSON, Marquette, Mich.
Secretary, A. E. MILLER, Marquette, Mich.
Auditor, A. E. DELF, Marquette, Mich.
Treasurer, E. W. ALLEN, Marquette, Mich.
Assistant Treasurer and Assistant Secretary:
GEO. H. CHUBCH, New York, N. Y.
General Manager, WM. F. FITCH, Marquette, Mich.
Superintendent, J. C. SHIELDS, Hancock, Mich.
General Presight Agent, WM. ORR, Duluth, Minn.
Attorney, A. B. ELDRIDGE, Marquette, Mich.

#### DIRECTORS.

C. H. CALL, Marquette, Mich.
A. B. ELDRIDGE, Marquette, Mich.
A. E. MILLEE, Marquette, Mich.
J. M. WILEINSON, Marquette, Mich.
A. S. BIGELOW, Boston, Mass.
W. E. PARNALL, Laurnim, Mich.
Term expires July 14, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 14, 1885. Number of stockholders at date of last election: 12. Number of stockholders in Michigan at same date: 10. Amount of full paid stock held in Michigan at same date: 1,006 shares. Date of annual meeting of stockholders: Second Tuesday in July. Fiscal year of company ends: December 31. General offices of the company are located at Marquette, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$178,088 43
Net income		\$65,988 44
Interest on funded debt	\$16,250 00	
Balance applicable to dividends		\$49,738 44
Dividends declared (5 per cent)	\$17,500 00	
Balance for the year.		\$32,238 44
Balance (profit and loss) last year.		260,114 47
Balance forward to next year		\$292,352 91

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of Par value of shares.  Number of shares issued			8,500 \$100 O	=
Total amount paid in, as per books of t	he compan	·y		850,000 00
Paid in permile of road owned by company	, 31.19 mile	×		11,221 55
	FUNDED :	DEBT.		
Class, character and date of issue	Rate of Interest.	When due.	Where payable.	Amount outstanding.
H. & C. R. R. Consol mortgage, Jan. 1, 1891.	5≴	Jan. 1, 1931	In New York, N.Y.	*\$400,000 00
Total funded debt				\$400,000 00
*Of the \$400,000.00 5≴ bonds \$75,000.00 are	in the trea	sury of the com	pany.	
1	RECAPITUL	ATION.		
Total funded debt				. \$400,000 00
Total debt liabilities	•			\$400,000 00
Amount of debt liabilities per mile of road, Total amount of stock and debt	81.19 mile	6		12,824 62 750,000 00 24,046 17
GENERAL	BALANC	E SHEETDR		
Construction account				\$703,062 80 167,872 94
Other investments Hancock & Calumet R. R. 5% bonds				75,000 00
Other assets Debit balances from companies and individ				96,917 17
Total				\$1,042,852 91
GENERAL	L BALANO	CE SHEET.—CR	•	
Capital stock				. \$350,000 00
Funded debt Profit and loss or income accounts				\$350,000 00 400,000 00 292,352 91
Total		••••••		\$1,042,852 91
COST OF	ROAD AN	D EQUIPMENT	?.	
Total cost for construction and eq	quipmen! q	f road and bran	ches built by compa	ny.
Total expended for construction and equipped Average cost per mile of road (not including Proportion of cost for Michigan	mentg sidings),	31.19 miles		\$870,485 74 27,907 53 870,485 74

### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

		<b>,</b>			
	Extensions and new sidings.	New fences.	New locomotives.	New cars.	Total.
Main line	\$1,986 29	\$116 60	\$296 87	\$11,685 05	\$14,034 81
Dollar Bay Dock	6,527 87				6,527 87
Total charges	\$8,464 16	\$116 60	\$296 87	\$11,685 05	20,562 68
Total charges to property account a Net addition to property account	s above				\$20,562 68 20,562 68
Main line and branches:	Passeng	ER EARNINGS	•		
Local fares				. \$11,809 90	
Total passenger fares	· · · · · · · · · · · · · · · · · · ·			<b>\$11,809 90</b>	
Express and baggage				. 333 89 . 669 01	
Total passenger department ea	arnings				\$12,812 80
Per train mile				- <b>\$</b> 0 48.92 - 407 79	
Main line and branches:		T EARNINGS.		_ \$164,818 13	
				<del></del>	
Total traffic					
Total freight department earn					164,818 18
Per train mile Per mile of road				- \$1 04.87 - 5,245 64	
Total transportation earnings, e	ntire lines		·		\$177,680 99
Transportation earnings per mile of Transportation earnings per train : For rents not otherwise provided fo	road mile			\$5,658 44 - 96 - 457 50	.88
Distribution of miscellaneous earni	nge hetween i	main line and	leased or neo	orietery mede	
			-	Total mis- cellaneous. f	Proportion or Michigan.
Hancock & Calumet R. R.				- \$457 50	\$457.50
Total earnings from operation of ro Total earnings per mile of road Total earnings per train mile				\$5.668.00	
Total earnings per train mile Proportion of taxable earnings for I Total taxable earnings per mile of r	oad in Michig	an			178,088 48 5,668 00
Total income from all sources					\$178,088 48
Proportion of income for Michigan					178,088 48

#### ANALYSIS OF EXPENSES.

MATHT		WAY	AWD	STRUCTURES.

epairs of roadway		
		\$15,280
spans of follows; spairs and renewals of bridges and culverts. epairs and renewals of fences, road crossings, signs and cattle guards. epairs and renewals of buildings and fixtures. epairs and renewals of buildings and fixtures.		1,096 397
spairs and renewals of pringes and duveries.		80
epairs and renewals of huldings and fixtures, signs and caves guards		622
enairs and renewals of telegraph		85
ationery and printing		85 1
Total		\$17,564
MAINTENANCE OF EQUIPMENT.		
		e1 980
aperintendence  epairs and renewals of locomotives  epairs and renewals of passenger cars  epairs and renewals of freight cars  there expenses		\$1,260 5,219 1,220
ensire and renewals of nassenger cars		1,220
epairs and renewals of freight cars		8,466
ther expenses		74
Total		
1'0tal		\$16,242
CONDUCTING TRANSPORTATION.		
perintendencegine and roundhouse men		\$1,416 16,229 16,281 776
ngine and roundhouse men		16,229
nel for locomotives		16,281
nel for locomotives. ater supply for locomotives. ii. tallow and waste for locomotives. ther supplies for locomotives.		776
II, TALLOW AND WASTE IOF LOCOMOTIVES		483 106
ein carrica		15,293
rain service rain service rain supplies and expenses witchmen, flagmen and watchmen		874
witchmen, flagmen and watchmen.		8,693
elegraph expenses		8,698 1,797
tation service		X.480
ation service ation supplies oss and damage		678 59
oss and damage		
juries to personsdepartising		45 40
dvertising ent of buildings and other property actionery and printing		900
ationery and printing		425
Total		\$67,061
Genreal Expenses.		
Genreal Expenses.		\$3,150 2,044
alaries of general officers alaries of clerks and attendants.		\$3,150 2,044 116
alaries of general officers alaries of clerks and attendants.		\$3,150 2,044 116 367
alaries of general officers alaries of clerks and attendants.		\$3,150 2,044 116 367 491
slaries of general officers slaries of cierks and attendants		\$3,150 2,044 116 367 491 91 182
slaries of general officers slaries of cierks and attendants		\$3,150 2,044 116 367 491 91 182
Genreal Expenses.		\$3,150 2,044 116 367 491 91 182 4,789
alaries of general officers siaries of clerks and attendants. surance aw expenses attonery and printing (general offices) ther expenses		\$87,061 \$3,150 2,044 116 367 491 91 182 4,789 \$11,232
alaries of general officers  alaries of clerks and attendants eneral office expenses and supplies surance avepenses attonery and printing (general offices) ther expenses axes  Total		\$3,150 2,044 116 367 491 91 182 4,789
GENERAL EXPENSES.  tlaries of general officers tlaries of clerks and attendants eneral office expenses and supplies surance aw expenses ationery and printing (general offices) ther expenses  Total  RECAPITULATION OF EXPENSES.	Per cent of	\$3,150 2,044 116 367 491 91 182 4,789
GENERAL EXPENSES.  alaries of general officers laries of clerks and attendants several office expenses and supplies surance averance and supplies autionery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses.	\$3,150 2,044 116 967 491 91 182 4,789 \$11,232
GENERAL EXPENSES.  alaries of general officers	Per cent of expenses.	\$3,150 2,044 116 967 491 91 182 4,789 \$11,232
alaries of general officers alaries of clerks and attendants. eneral office expenses and supplies surrance aw expenses. Lationery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses. 15.67 14.49	\$3,150 2,044 116 967 491 91 182 4,789 \$11,232
alaries of general officers alaries of clerks and attendants. eneral office expenses and supplies surrance aw expenses. Lationery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES.	Per cent of expenses. 15.67 14.49 59.82	\$3,150 2,044 116 967 491 91 182 4,789 \$11,232
GENERAL EXPENSES.  alaries of general officers	Per cent of expenses. 15.67 14.49	\$3,150 2,044 116 367 491 91 182 4,789
GENERAL EXPENSES.  alaries of general officers haries of clerks and attendants bueral office expenses and supplies as wexpenses attenery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES,  sintenance of way and structures aintenance of equipment onducting transportation eneral expenses, including taxes	Per cent of expenses. 15.67 14.49 59.82	\$3,150 2,044 116 967 491 91 182 4,789 \$11,232
alaries of general officers alaries of clerks and attendants. eneral office expenses and supplies surrance aw expenses. Lationery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES.	Per cent of exp*nses. 15.67 14.49 50.49 10.02	\$3,150 2,044 367 491 182 4,789 \$11,232 \$11,232
GENERAL EXPENSES.  alaries of general officers	Per cent of expenses. 15.67 14.49 59.82 10.02	\$3,150 2,044 116 367 491 1182 4,789 \$11,232 \$17,564 16,242 67,081 11,232 \$112,099
GENERAL EXPENSES.  alaries of general officers	Per cent of expenses. 15.67 14.49 59.82 10.02	\$3,150 2,044 116 367 491 1182 4,789 \$11,232 \$17,564 16,242 67,081 11,232 \$112,099
GENERAL EXPENSES.  alaries of general officers	Per cent of expenses. 15.67 14.49 59.82 10.02	\$3,150 2,044 116 367 491 1182 4,789 \$11,232 \$17,564 16,242 67,081 11,232 \$112,099
alaries of general officers alaries of clerks and attendants eneral office expenses and supplies surance aw expenses attendery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES.  (aintenance of equipment onducting transportation eneral expenses, including taxes  Total operating expenses and taxes per mile of road perating expenses and taxes per train mile run, for trains, earning revenue, 183, roportion of operating expenses and taxes for Michigan, main line	Per cent of exp*nses. 15.67 14.49 59.82 10.02 100.00	\$3,150 2,044 367 491 91 182 4,789 \$11,252 \$11,252 \$12,099 \$3,567 19 61 112,099 99
alaries of general officers alaries of clerks and attendants eneral office expenses and supplies surance aw expenses attendery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES,  (sintenance of equipment onducting transportation eneral expenses, including taxes.  Total operating expenses and taxes per mile of road perating expenses and taxes per train mile run, for trains, earning revenue, 183, roportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan.	Per cent of expenses. 15.67 14.49 50.02 100.00	\$3,150 2,044 367 491 91 182 4,789 \$11,252 \$11,252 \$12,099 \$3,567 19 61 112,099 99
alaries of general officers alaries of clerks and attendants eneral office expenses and supplies surance aw expenses attendery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES,  (sintenance of equipment onducting transportation eneral expenses, including taxes.  Total operating expenses and taxes per mile of road perating expenses and taxes per train mile run, for trains, earning revenue, 183, roportion of operating expenses and taxes for Michigan, main line  Total proportion of expenses for Michigan.	Per cent of expenses. 15.67 14.49 50.02 100.00	\$3,150 2,044 116 367 491 1122 4,789 \$11,232 \$17,564 16,242 67,061 11,232 \$112,099 93,567 79 112,099 99
alaries of general officers alaries of clerks and attendants eneral office expenses and supplies surance aw expenses attendery and printing (general offices) ther expenses axes  Total  RECAPITULATION OF EXPENSES.  (aintenance of equipment onducting transportation eneral expenses, including taxes  Total operating expenses and taxes per mile of road perating expenses and taxes per train mile run, for trains, earning revenue, 183, roportion of operating expenses and taxes for Michigan, main line	Per cent of expenses. 15.67 14.49 50.02 100.00	\$3,150 2,044 367 491 91 182 4,789 \$11,252 \$11,252 \$12,099 \$3,567 19 61 112,099 99

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Hancock to Calumet, December 1, 1885. From Junction to Lake Linden, December 1, 1885. From Calumet to Alloues, March 12, 1887. From Alloues to Fulton, October 28, 1891. From Fulton to end of track, July 28, 1895.		
MAIN LINE.	Miles.	Miles.
In Michigan, from Hancock to end of track	MILOS.	24.00
Total length completed		24.00
BRANCHES.		
Lake Linden from Innotion to Lake Linden	2.51	
North Tamarack from Tamarack mine to North Tamarack mine  Tamarack, Jr., from main line to Tamarack, Jr., mine	1.87 .66	
Regregate from main line to Kearsarge mine.  Dollar Bay from main line to Dollar Bay Dock.	.65	
Dollar Bay from main line to Dollar Bay Dock Union Coal Dock from main line to Union Coal Dock, Dollar Bay	.75 .75	
Total length of branches owned by company		7.19
Total length of branches owned by company in Michigan	7.19	
Total length of road belonging to this company		81.19
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length in Michigan of sidings, spurs, and other tracks not above enu	81.19 merated	11.75
Aggregate length of tracks in Michigan belonging to this company, computed as a	ingle track.	<u>42.94</u>
Gauge of track, 8 feet.		
Proprietary or leased roads operated by this company	•	
Name, description and length of each:	otal miles. 1	in Michigan.
Mineral Range R. R., from passenger depot at Hancock to H. & C. R. R. connection at smelting works.	.28	.23
Total	.23	.28
Total miles operated by the company	81.42	81.42
Number of bridges and trestles in Michigan.		Aggregate
Wooden beidens	Number. 16	length, feet. 2,291%
Wooden bridges	3	562
Wooden trestles	5	1,178
Total	24	4,0811/4
·		
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? Mineral range R. R. at Osceola. Hecla & Torch Lake R. R. at Calumet.		
What railroads cross your road either over or under your grade in this State, a	nd where?	
Over. Hecla & Torch Lake R. R. at Calumet.		
At what crossings are interlocking and derailing switches in operation? Osceola.		
What pattern or patterns have you adopted? Pennsylvania Steel Co.		
Number of crossings of highways at grade in this State		12 1 1
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by act 174, session laws of 18 Yes.	837	
How are they treated? Filled in with wooden blocks.		

#### Stations.

Number of stations on whole lines		<b>6</b> 6
Employés.		
mmproyes.	•	
Number of persons regularly employed on all roads operated by company, including of Same in Michigan	officials	91 91
Classify your employés as per following list:		Number.
Brakemen		12
Conductors Engineers		7
PiremeuLaborers		6 25
Shopmen Yardmen		6
Others		25
REPAIRS AND RENEWALS.		
Fencing in Michigan.		
How many miles of fencing have you?		22.80
Give the number of miles required to complete fence both side of your track in Mi and the counties in which needed:		
Houghton county	35.22 4.36	
Total miles required		89.58
Road bed and track.		_
Number of track sections in Michigan	414	7
Average number of men in each section gang.  Number of new ties put in whole line during the year		· 5.886
Number of new ties put in track in Michigan Average number of new ties per mile of road		5,886 189
WASTER BRITINGS OF HEAR FIRS Not HITTO OF LORG TOTAL	===	
ROLLING STOCK.		Present esti-
N	umber.	Present esti- mated value.
	umber.	Present esti- mated value. \$49,000 00 5,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	umber. : 7	mated value. \$49,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	umber.	#49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	1 8 4 16 99	#49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	1 8 4 16	mated value. \$49,000 00 5,000 00 \$54,000 00 4,800 00 24,730 00 62,250 00
Number of locomotives of more than 30 tons weight, exclusive of tender	1 8 4 16 99 166	#49,000 00 5,000 00 \$54,000 00
Number of locomotives of more than 30 tons weight, exclusive of tender	1 1 8 4 16 99 166 3	mated value. \$49,000 00 5,000 00 \$54,000 00 4,800 00 24,730 00 62,250 00
Number of locomotives of more than 30 tons weight, exclusive of tender	1 8 4 16 99 166 3 1 289 7	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 24,730 00 62,250 00 1,500 00 200 00
Number of locomotives of more than 30 tons weight, exclusive of tender.  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  Total	1 8 4 166 99 166 3 1 289	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 24,730 00 62,250 00 1,500 00 200 00
Number of locomotives of more than 30 tons weight, exclusive of tender	umber. 7 1 8 4 166 999 166 3 1 289 7 4	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 22,730 00 1,500 00 200 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	mber. 7 1 8 4 16 99 166 3 1 289 7 4 a brake,	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 22,730 00 1,500 00 200 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	mber. 7 1 8 4 16 99 166 3 1 289 7 4 a brake,	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 22,730 00 1,500 00 200 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	mber. 7 1 8 4 16 99 166 3 1 289 7 4 a brake,	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 22,730 00 1,500 00 200 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	mber. 7 1 8 4 16 99 166 3 1 289 7 4 a brake,	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 22,730 00 1,500 00 200 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	mber. 7 1 8 4 16 99 166 3 1 289 7 4 a brake,	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 22,730 00 1,500 00 200 00 \$159,500 00
Number of locomotives of more than 30 tons weight, exclusive of tender	289 7 4 16 99 166 3 1 289 7 4 brake,	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 1,500 00 200 00 \$159,500 00 6; passenger session laws
Number of locomotives of more than 30 tons weight, exclusive of tender	mber. 7 1 8 4 16 99 166 3 1 289 7 4 a brake,	mated value. \$49,000 00 5,000 00 \$54,000 00 \$12,000 00 4,800 00 24,730 00 22,730 00 1,500 00 200 00 \$159,500 00

Total mileage of trains earning revenue.....

183,859

#### Passenger traffic.—Road all in State of Michigan.

	Numbers.	Miles.	Rate.
Number of local passengers carried, earning revenue  Number of passengers carried one mile	60,619 878,266		
Average distance carried		6.157	
Average amount received from each passenger			<b>80</b> 19.482
Average receipts per mile for local passengers			08.168
Freight traffic.—Road all in State of	Michigan.		
	Tons.	Miles.	Rate
Number of tons of local freight carried, earning revenue	1,118,980		
Total mileage of local freight	-1-20,000	6.517.866	
Total mileage of local freight  Total freight mileage or tons carried one mile		6.517.866	
Average ton haul for local freight		5.824	
Average ton hanl for all freight		5.824	
Average ton haul for all freight			80 14.729
Average receipts ton per mile for local freight			02.528
Average receipts ton per mile for all freight			02.528

#### FREIGHT TRAFFIC MOVEMENT.-BOAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight	originating connecting		Total freight tonnage.		
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.		
Products of agriculture: Grain. Flour Other mill products. Hay. Fruit and vegetables.	473 669		1,099 473 669 253 192	.10 .04 .05 .02 .02		
Products of animals: Live stock Dressed meate	8 23		23			
Products of mines: Bituminous coal Ores, copper rock. Stone, sand, and other like articles.	58,585 822,924 5,977		58,585 822,924 5,977	4.79 78.54 .54		
Products of forest: Lumber Logs	14,091 11,189		14.091 11,189	1.26 1.00		
Manufactures: Iron, pig and bloom. Iron and steel rails. Other castings and machinery. Bar and sheet metal Cement, brick and lime. Wagons, carriages, tools, etc. Wines, liquors and beers.	729 1,516 56 843 127		435 729 1,516 56 843 127 874	.04 .06 .14 .01 .07 .01		
Merchandise	7,665		7,665	.68		
Miscellaneous: Other commodities not mentioned above	196,252		196,252	17.54		
Total tonnage.	1,118,980		1,118,980	100.00		

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express Co. Hancock & Calumet R. R. receives \$20 00 per month. They do a general business. We take their freight at our depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 10 miles; owned by Mineral Range R. R. Co.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR, 1896.

#### INJURED.

January 8, P. McCarthy, brakeman, Hancock. Slightly scalded by escaping steam from engine.
January 20, T. Rentenbach, brakeman, Hancock. Finger pinched; coupling.
April 18, Israel Pilky, Red Jacket. Flesh torn off flager; coupling.
May 27, Geo. Harris, brakeman, Osceola. Finger pinched; coupling.
November 25, John Hohner, brakeman, Mills. Right hip bruised; coupling.
December 8, Richard O'Neal, trespasser, Calumet. Lying on track; struck by train; intoxicated.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

0 4 . 131		Killed.		Injured.			
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.	
Coupling cars Miscellaneous Trespassers on tracks					4 1	i	
Total					5	1	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year.	6
Number of casualties purely accidental	5.
Persons killed or injured while intoxicated	1
Trespassers and tramps killed or injured.	1

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

•	Killed.	Injured.	Total.
Brakemen		5	5
Total		5	5

STATE OF MICHIGAN, } 88.

A. E. Delf, auditor of the Hancock & Calumet Bailroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. of R. R.]

Signed,

A. E. DELF, Auditor.

Subscribed and sworn to before me this 1st day of April, A. D. 1897.

[L. S.]

CHARLES A. PAYNE.

#### OF THE

### INDIANA & LAKE MICHIGAN RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed March 80, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. J. TURNER, St. Louis, Mo.
Secretary, GEORGE E. FARRINGTON, Terre Haute, Ind.
Treasurer, B. B. THOMPSON, Terre Haute, Ind.
Transfer Agent, GEORGE E. FARRINGTON, Terre Haute, Ind.
Vice President, JAMES McCREA, Pittsburgh, Pa.
Assistant Secretary, W. G. PHELPS, St. Louis, Mo.

#### DIRECTORS.

J. J. Turner, St. Louis, Mo.

James McCrra, Pitteburgh, Pa.

JNO. E. DAVIDSON, Pitteburgh, Pa.

W. B. MCKESN, Terre Haute, Ind.

GEO. E. FARRINGTON, Terre Haute, Ind.

Terms expire January 13, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 30, 1838.

Number of stockholders at date of last election: 6.

Number of stockholders in Michigan at same date: None.

Amount of full paid stock held in Michigan at same date: None.

Date of annual meeting of stockholders: First Wednesday after second Tuesday in January.

Fiscal year of company ends October 3ist.

General offices of the company are located at Terre Haute, Ind.

#### REMARKS

Indiana & Lake Michigan Ry. Co., of Indiana, chartered July 2, 1887; Indiana & Lake Michigan Ry. Co., of Michigan, chartered August 3, 1837, under the laws of each State. These two companies were consolidated March 30, 1838, as the Indiana & Lake Michigan Ry. Co., whose property and franchises was leased January 6, 1830, to the Terre Haute & Indianapolis Ry. Co., whose property and franchises was leased January 6, 1830, to the Terre Haute & Indianapolis R. R. Co. for 99 years, leases guaranteeing \$180,000.00, first mortgage, 5% bonds, retaining 75% of gross earnings for operating, and applying 25% of gross earnings to payment of taxes, interest on bonds, and expense of maintaining corporate organisation, any surplus derived from the 25% to be paid to lessor. The lessee is the owner of the stock of this company. Interest due September 1, 1836, on first mortgage bonds is in default. Lessee falling to meet guarantee, lessees property was placed in hands of receiver, November 13, 1896, and this property by virtue of lease is now in his control.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares	\$10 10 8,000	0 00	\$800,000 00
Total amount paid in, as per books of the company Paid in per mile of road owned by company			 800,000 00 \$20,361 41

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

•		FUNDED 1	DEBT.			
Class, character and date of	issue.	Rate of interest.	When due.	Where payable.	Amount out- standing.	
First mortgage, Sept. 1, 1889		5≴	Mar. and Sept	Cent. Trust Co., New York	\$480,000 00	
	1	unfun ded	DEBT.			
For what incurred. Is the same to be funded or how liquidated.					Amount.	
For constructionFor miscellaneousFor surrent balances	For construction					
Total unfunded debt				***************************************	\$271,898 87	
	70	ECAPITUL	ATTON.			
Total funded debtTotal unfunded debt					\$480,000 00 271,898 87	
Total debt liabilities					\$751,893 87	
Amount of debt liabilities per mi Total amount of stock and debt . Stock and debt per mile of road.	le of road,	39.29 mile	<b>8</b>		19,137 01 1,551,893 37 39,498 42	
	INTERES	T ON THE	funded debt.			
What is the amount of same due Was it paid for the last year? O If interest is in default state the Interest due September 1, 1896,	each year . nly one-hal years and : in default.	if paid. amounts a	s follows:		\$24,000 00 12,000 00	
TOTAL COST FOR CONSTRUCT			D EQUIPMENT.	VOTES DITTE TO DE CO	WD 4 WF	
Total expended for construction. Average cost of construction per Proportion of cost of constructio	mile of ros	d (not inc	luding sidings) &	).29 miles	\$1,431,038 44 86,422 46	
	DESC	RIPTION	OF ROAD.			
Date when the road was opened i	or use bet	ween its pr	resent termini: A	lugust 15, 1890.		
		MAIN LI	INB.	Miles.	Miles.	
Length completed in Michigan In other states			· · · · · · · · · · · · · · · · · · ·	25.06	i	
Total length completed			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	39.29	
		BRANCE	irs.			
Aggregate length of sidings, spur Same in Michigan Aggregate length of tracks belon Same in Michigan	ging to this	company	, computed as sin	gle track	45.49	
Gauge of track, 4 feet 9 inches.				-	====	

STATE OF MISSOURI, } 88.

J. J. Turner, president, and W. G. Phelps, assistant secretary, of the Indiana & Lake Michigan Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters therein contained of said company, on the thirty-first day of December, A. D. 1897, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

J. J. TURNER, President,

W. G. PHELPS, Assistant Secretary.

Subscribed and sworn to before me this 23rd day of March, A. D. 1897.

ΓL. 8.

F. A. BANISTER, Notary Public.

OF THE

## TERRE HAUTE & INDIANAPOLIS RAILROAD COMPANY.

#### T. MASER

#### INDIANA AND LAKE MICHIGAN RAILWAY.

For the year ending December 81, 1896.

[Filed April 2, 1897.]

# OFFICERS OF TERRE HAUTE AND INDIANAPOLIS RAILROAD COMPANY, WITH LOCATION OF OFFICES.

President, JAMES MOCREA, Pittsburg, Pa.

Vice President and General Manager, J. J. TURNEE, St. Louis, Mo.

Secretary, GEO. E. FARRINGTON, Terre Haute, Ind.

Auditor, W. S. RONEY, Terre Haute, Ind.

Division Superintendent, F. T. HATCH, Terre Haute, Ind.

Division Superintendent, F. T. HATCH, Terre Haute, Ind.

Chief Engineer, F. T. HATCH, Terre Haute, Ind.

Superintendent of Telegraph, A. M. SCHOYER, Pittsburg, Pa.

General Passenger Agent, E. A. FORD, Pittsburg, Pa.

General Freight Agent, N. W. TAYLOR, St. Louis, Mo.

Attorney, JNO. G. WILLIAMS, Indianapolis, Ind.

Receiver, V. T. MALOTT, Indianapolis, Ind.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 30, 1888. Number of stockholders at date of last election: 5. Date of annual meeting of stockholders: Second Wednesday in December. Fiscal year of company ends October 31. General offices of the company are located at Terre Haute, Ind.

# ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAN.

PASSENGER EARNINGS.		
Main line and branches: Local fares Through fares	\$10,852 28 1,741 51	
Total passenger fares.	\$12,098 79	
Express and baggage	566 78 1,690 36	
Total passenger department earnings		\$14,350 98
Per train mile Per mile of road.	\$0 88 572 89	
Main line and branches:		
main the and oranches: Local traffic Through traffic	\$8,102 51 20,835 04	
Total freight department earnings		28,937 55
Per train mile	\$1 86 1,155 19	

#### ANALYSIS OF EARNINGS.—ENTIRE LINES.

PASSENGEE BARNINGS.		
Main line and branches: Local fares Through fares	\$14,460 41 2,419 95	
Total passenger fares	\$16,880 36	
Express and baggage.  Mails	615 25 2,857 74	
Total pastenger department earnings		\$20,858 85
Per train mile	<b>\$</b> 0 84 518 08	
FREIGHT BARNINGS.		
Main line and branches: Local traffic Through traffic	\$13,118 81 88,508 45	•
Total freight department earnings		46,616 76
Per train mile	\$1 40 1,186 48	
Total transportation earnings, entire line		<b>\$66,970 11</b>
Transportation earnings per mile of road	\$1,704 51 72	
Total earnings from operation of road. Total earnings per mile of road. Total earnings per train mile. Proportion of taxable earnings for Michigan. Total taxable earnings per mile of road in Michigan.	\$1,704 51 72 48 288 48	66,970 11
Total taxable earnings per mile of road in Michigan	43,288 48 1,728 08	
Total income from all sources Proportion of income for Michigan		\$66,970 11 43,288 48
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway		\$9,084 50
Renewals of rails. Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves. Repairs and renewals of telegraph Stationery and printing. Other expenses.		599 08 3,188 54 209 57 1,082 71 509 84 835 95 97 84 36 87 1,009 42
Total.	-	\$16,054 42
MAINTENANCE OF EQUIPMENT.		
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of reight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses		\$265 28 1,021 80 162 18 3,775 19 209 82 34 92 6 22 163 90
Total		\$5,638 76
CONDUCTING TRANSPORTATION.		
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses		\$599 81 8,317 27 4,172 05 612 73 114 09 84 05 5,423 58 631 22

Switchmen, flagmen and watchmen Telegraph expenses Station service Station supplies Car mileage—balance Hire of equipment Loss and damage Injuries to persons Clearing wrecks Advertising Outside agencies Rents for tracks, yards and terminals Rent of buildings and other property Stationery and printing Other expenses  Total	\$2,987 49 1,701 07 9,056 48 968 90 6,850 32 3,852 88 40 84 1 35 85 53 2,067 00 2,428 15 1,394 48 608 16 6 26
GENERAL EXPENSES.	
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Law expenses Stationery and printing (general offices) Other expenses	\$415 64 691 71 45 41 191 04 82 16 77
Total	\$1,426 73
RECAPITULATION OF EXPENSES.  Per cent of expenses.  Maintenance of way and structures 21.60 Maintenance of equipment. 7.59 Conducting transportation 68.89 General expenses, including taxes 1.92	\$16,054 42 5,638 76 51,188 02 1,426 78
·	
Total operating expenses and taxes	\$74,307,98
Operating expenses and taxes per mile of road	\$1,891 27 80
Total proportion of expenses for Michigan	847,876 27
Percentage of expenses to earnings, 111	
DESCRIPTION OF BOAD.  Date when the road was opened for use between its present termini: From South Bend, Ind., to St. Joseph, Mich., Aug. 4, 1890.	
MAIN LINE.	
Miles. In Michigan, from Indiana State Line to St. Joseph, Mich	Miles.
Total length completed	89.29
Total length of road belonging to this company in Mishigan 25.05 Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated. 5.51	
Aggregate length of tracks in Michigan belonging to this company, computed as single	90 K#
Gauge of track, 4 feet 8½ inches.	80.56
Number of bridges and trestles in Michigan.	
Wooden treatles Number. Management of the Number of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State of State	Aggregate ength, feet. 1,905

#### Crossings.—Railroad and highway.

What railroads cross your road either over or under your grade, in this State, and where?  Over: Michigan Central Railroad at Gallen.	
Number of crossings of highways at grade in this State	24 2
Number of crossings of highways over or under railroad: Over 4.	
Number of highway bridges 18 feet above track: Four.	•
Have safety guards been erected at overhead obstructions? At M. C. crossing.	
Are your frogs and guard rails blocked as required by act 174, session laws of 1883? Not all.	
How are they treated? Wooden blocking placed between the rails.	
Stations.	
Number of stations on whole lines	10 6
Employés.	
Number of course combined courses and an all courses designed by community designed	
Number of persons regularly employed on all roads operated by company, including officials.  Same in Michigan	61 54
Classify your employée as per following list:	Number.
Baggagemen	2
Brakemen Conductors	3 4 4 14 8 5
EngineersFiremen	4
Laborers	14
ShopmenYardmen	8
Others	10
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
	45.05
How many miles of fencing have you?.  Give the number of miles required to complete fences both side of your track in Michigan, and the counties in which needed: In Berrien county.	
and the counties in which needed: In Berrien county	5.05
Road bed and track.	
Number of track sections in Michigan	4
Average lengths of sections, miles	5 3
Numb:r of new ties put in whole line during the year	7,826 4,650
Number of new ties put in track in Michigan.  Average number of new ties per mile of road,	186
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, liner feet	16 1
MILEAGE, TRAFFIC, ETC.	
Train mileage.	Miski
Miles run by passenger trains during the year 59,260	Michigan. 87,776
Miles run by passenger trains during the year       59,260         Miles run by freight trains during the year       33,285	21,217
Total mileage of trains earning revenue	58,993

## Passenger traffic.—Entire lines.

	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue	2,975 29,568		
Total number of passengers carried, earning revenue	82,548		
Number of passengers carried one mile.  Average distance carried from each passenger.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers exerge receipts per passenger per mile for all passengers.  Estimated cost of carrying each passenger one mile.	802,882	<b>25</b>	\$0 52 02. 02.1 02.1 04.8
		=	
Passenger traffic.—In State of Michi	gan. Numbers.	Miles.	Bate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	1,896 18,851	M.1108.	nave.
Total number of passengers carried, earning revenue	20,747		
Number of passengers carried one mile	512,207	25	
Average distance carried.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.			90 58 02.4
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Estimated cost of carrying each passenger one mile.			02.4 02.4 04.8
recimated cost of carrying each passenger one mine			VE.0
Freight traffic.—Entire lines.			
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	92,931 31,081		
Total tons of freight carried, earning revenue	124,012		
Total milage of through freight		8,275,518 1,011,514	
Total freight mileage or tons carried one mile		4,287,082	
Average ton haul for through freight		85.25 82.54	
Average ton haul for all freight.		84.57	
Average amount received for each ton haul.  Average receipts ton per mile, through freight.  Average receipts ton per mile, for local freight.  Average receipts tons per mile, all freight  Estimated cost of carrying one ton one mile.			\$0 38 01.02 01.30 1.09 .89
		=	
Freight traffic.—In State of Michig			
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 59,290 19,830	Miles.	Rate.
Total tons of freight carried, earning revenue	79,120		
Total mileage of through freight		2,089,680 645,346	
Total freight mileage or tons carried one mile		2,785,026	
Average ton haul for through freight		85.25 32.54	
Average ton haul for all freight		34.57	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight  Estimated cost of carrying one ton one mile			\$0 87 01.00 01.26 01.06 .89

## FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

### Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	161	1,664	1,825	1.47	
Flour	1,057 253	81,152	82,209 9,778	26.07	
Other mill products	46	9,520 432	478	7.88 .39	
HayTobacco	20	98	93	.01	
		1 77	77	.01	
Cotton	9,840	• • • • • • • • • • • • • • • • • • • •	9,840	7.98	
Fruit and vegetablesOther articles	39	780	819	.70	
Products of animals:			i i		
Live stock		112	136	.11	
Other packing house products		67	67	.01	
Poultry, game and usn		18 74	18 97	.01	
Wool Hides and leather	20	567	567	.50	
Other articles		26	26		
Products of mines:					
Anthracite coal		8,532	8,582	2.85 8.72	
Bituminous coal		10,815	10,815	8.72	
Coke		42	42		
CokeStone, sand, and other like articlesOther articles	845 942	8,305 374	4,150 1,316	3.35 1.06	
Products of forest:			l i		
Lumber	3,801	18,676	17,477	14.09	
Other articles	4,626	6,008	10,634	8.57	
Manufactures: Petroleum and other oils	87	101	188	.11	
Sugar	1 97	853	1 390	.80	
Iron, plg and bloom Iron and steel rails Other castings and machinery	227	2.257	2,484	2.00	
Iron and steel rails		121	1 7121	.10	
Other castings and machinery	76	628	704	.60	
Bar and speet metals	1 00	110	178	.12	
Cement, brick and lime	243	250	493	.40	
Agricultural implements	56	350	406	.80	
Wagons, carriages, tools, etc.	109	858	467	.40	
Wines, liquors and beers		168	168	.11	
Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers. Household goods and furniture. Other articles	52	960	1,012	.81	
	I	2,828	8,586	2.89	
Merchandise	4,105	2,584	6,689	5.89	
Miscellaneous:					
Other commodities not mentioned above	1,661	1,584	3,195	2.74	
Total tonnage	31,081	92,931	124,012	100.00	

## MICHIGAN RAİLROAD RETURNS, 1896.

#### FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

#### Company's material excluded.

Q	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	115	1,145	1,260	. 1.59	
Flour	900	20,300	21,200	26.79	
Other mill products		6,125	6,800	7.96	
Hay Tobacco		236 63	815 68	.40 .08	
Cotton		46	46	.us .06	
Cotton Fruit and vegetables	6,880		6,880	8.07	
Other articles		519	519	.64	
Products of animals:					
Live stock		66	66	.08	
Other packing house products Poultry, game and fish		67	67	.08	
Wool		18 97	13	.02	
Hides and leather		567	567	.72	
Other articles		26	26	.03	
Products of mines:					
Anthracite coal		1,932	1,932	2.44	
Bituminous coal Stone, sand and other like articles	625	6,815	6,815	7.98	
Other articles	200	1,875 619	2,500 819	8.16 1.04	
Products of forest:					
Lumber	2,526	7,581	10,107	12.77	
LumberOther articles	1,100	5,220	6,320	7.90	
Manufactures: Iron, pig and bloom	130	1 401	1 401	0.00	
Iron and steel rails	130	1,491 121	1,621	2.05 .15	
Other castings and machinery	110	330	440	.56	
Bar and sheet metal		102	102	.13	
Cement, brick and lime		315	315		
Agricultural implements		200	200	.25	
Wagons, carriages, tools, etc		815	815	.40	
Wines, liquors and beers. Household goods and furniture		100	100	.13	
Other articles	2,758	625 828	625 8,586	.79 4.54	
Merchandite	4,020	769	4,789	6.05	
Miscellaneous:	1				
Other commodities not mentioned above	712	1,282	1,994	2.52	
Total tonnage	19,830	59,290	79,120	100.00	

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Adams Express Co. @ 474% of gross receipts. The kind of business done is merchandise usually carried by express companies. Freight received at stations,

Number of miles of telegraph on your road, and to whom does it belong?

25.1 miles poles owned jointly by I. & L. M. R. R. Co. and Western Union Telegraph Co. 50.2 miles wire owned by I. & L. M. R. R. Co. 25.1 miles wire owned by Western Union Telegraph Co.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

October 15, A. W. White, farmer, near Galien. Attempted to cross road ahead of passenger train.

#### INJURED.

June 22, Geo. Broady, brakeman, Glendora. Employé; coupling cars.

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year	Number of persons killed during the year	1 1 2
-------------------------------------------	------------------------------------------	-------------

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen		1	1
Total		1	1

STATE OF INDIANA, COUNTY OF MARION,

Voltey T. Malott, receiver of the Indiana & Lake Michigan Railway, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. B.]

[L. S.]

**VOLNEY T. MALOTT, Receiver.** 

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

ARTHUR V. BROWN.

Notary Public, Marion County, Indiana.

#### OF THE

## IRON RANGE & HURON BAY RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed March 81, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ALBERT L. STEPHENS, Detroit, Mich. Vice President, FREMONT WOODRUFF, Detroit. Mich. Secretary, MARTIN G. BORGMAN, Detroit, Mich. Treasurer, THEO. D. BUHL, Detroit, Mich. Attorney. H. E. BOYNTON, Detroit, Mich.

#### DIRECTORS.

ALBERT L. STEPHENS, 1018 Union Trust Building, Detroit.
THEO. D. BUHL, Buhl Sons & Co., Detroit.
HENRY STEPHENS, Telephone Building, Detroit.
WM. H. STEVENS, 44 Moffat Building, Detroit.
J. M. THURBER, Buhl Sons & Co., Detroit.
FREMONT WOODRUFF, 44 Moffat Building, Detroit.
WM. T. DEGRAFF, Detroit National Bank, Detroit.
Term expires February, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 30, 1890.
Number of stockholders at date of last election: 10.
Number of stockholders in Michigan at same date, 10.
Amount of full paid stock held in Michigan at same date: \$814,000
Date of annual meeting of stockholders: First Wednesday in February.
Fiscal year of company ends: January 31
General offices of the company are located at 1018 Union Trust Building, Detroit, Mich.

#### REMARKS:

Road not finished, and was never operated.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares		\$100 00		1,000,000 00
Number of shares issued	7,640	•	\$814.000 00	
Amount paid in on common  Amount paid in on shares not issued (number)	500		#01#1000 00	
Total amount paid in as per books of the company	8,140			814,000 00
Paid in per mile of road owned by company, 34 miles	<b></b> -			23,941 00

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

		FUNDED	DEBT.		
Class, character and date of i	ssue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
Mortgage bonds, Nov. 18, 1898 semi-annual interest payable \$1,000 each. Interest unpaid to January 1, 1897 321 bonds, \$155.84 each. 49 bonds, 125.00 each.	:	5%	Jan. 1, 1944	New York City	\$370,000 00 50,024 64 6,125 00
Total funded debt					\$426,149 64
	1	Unfunded	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	w liquidated.	Amount.
For miscellaneous					\$26,264 24
Total funded debt	e of road,	84 miles			_ 18,306 29
Total cost for construction a Average cost per mile of road (not	on and eq	uipment o		hes built by compa	ny. \$1,187,875 94 34,987 53
•			OF ROAD.		
In Michigan, from Huron Bay to (	Champion	MAIN L			Miles.
If north of parallel 44 of latitude: Between latitude 46 and 47. Give date road commenced to be be September, 1890. Give date road completed: Not completed. Give date road commenced to be of Never operated. Where built from and to: Huron Bay to Champion iron mit Give exact number of miles: 34.	ouilt:				
	-	_	trestles in Michigo	n. Number 28	Aggregate length, feet. 5,2281/s

#### ROLLING STOCK.

	Present es Number, mated val	
Number of locomotives of more than 30 tons weight, exclusive of tender Number of platform cars (36 feet long, low platform)	2 20	\$25,000 00 9,540 00
6 hand cars, \$270; 4 push cars, \$100; 2 iron laying cars, \$140		510 00
Total	22	\$35,050 00
Number of locomotives equipped with power brakes		2

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse air brake, automatic.

STATE OF MICHIGAN, } 88.

Martin G. Borgman, the secretary of the Iron Range & Huron Bay Railroad Company, being duly sworn deposes and says that he has personally prepared the foregoing statements and declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed, MARTIN G. BORGMAN.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

[L. s.] CRAPO C. SMITH,

Notary Public, Wayne County, Mich.

OF THE

#### LAKE SHORE & MICHIGAN SOUTHERN RAILWAY OO.

For the year ending December 81, 1896.

[Filed March 26, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Vice President, E. D. WORCESTER, New York, N. Y. Secretary, E. D. WORCESTER, New York, N. Y. Auditor, R. H. HILL, Cleveland, Ohio. Treasurer, E. D. WORCESTER, New York, N. Y. General Manager, W. H. CANNIFF, Cleveland, Ohio. General Superintendent, P. S. BLODGETT, Cleveland. Ohio. Division Superintendents:

TRACY W. NILES, Supt. Eastern Division, Buffalo, N. Y. J. K. RUSSELL, Supt. Toledo Division, Cleveland, Ohio. L. E. JOHNSON, Supt. Michigan Division, Toledo, Ohio. A. B. NEWELL, Supt. Western Division, Chicago, Ill. A. H. SMITH, Supt. Franklin Division, Youngstown, Ohio. H. A. WORCESTER, Supt. Detroit Division, Detroit, Mich. M. L. REYNOLDS, Supt. Lansing Division, Hilledale, Mich. P. ALLEN, Supt. Kalamazoo Division, Grand Rapids, Mich.

Chief Engineer, E. A. HANDY, Cleveland, Ohio.
Superintendent of Telegraph, WM. KLINE, Tolodo, Ohio.
Local Treasurer, N. BARTLETT, Cleveland, Ohio.
General Passenger Agent, A. J. SMITH, Cleveland, Ohio.
General Traffic Manager, G. J. GRAMMER, Cleveland, Ohio.
General Counsel, GEORGE C. GREENE, Cleveland, Ohio.

#### DIRECTORS.

W. K. VANDEBILT, New York, N. Y.

S. F. BARGER, New York, N. Y.

H. McK. Twombly, New York, N. Y.

C. M. REED, Erie, Pa.

Terms expire, May, 1897.

F. W. VANDERBILT, New York, N. Y.

E. D. Worcester, New York, N. Y.

D. W. CALDWELL, Cleveland, Ohio. C. M. DEPEW, New York, N. Y.

U. M. DEPEN, NOW TOTA, N. 1.

Jno. DeKoven, Chicago, Ill.

Terms expire, May, 1898.

C. VANDERBILT, New York, N. Y.

D. O. MILLS, New York, N. Y.

JAS. H. REED, Pittsburg, Pa.

I. M. SCHOONMAKER, Pittsburg, Pa. Terms expire, May, 1899.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 1846.
Number of stockholders at date of last election: 3,872.
Number of stockholders in Michigan at same date: 27.
Amount of full paid stock held in Michigan at same date: \$257,750.
Date of annual meeting of stockholders: First Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Cleveland, Ohio.

	GENERAL EXHIBIT.			Credit.
Total earnings from operation				20,198,957 54
Total expenses including taxes		\$:	18,726,154 67	
Net income				<b>26,467,802</b> 87
Interest on funded debt		53,350 00		
			3,800,214 89	
Balance applicable to dividends			2,967,990 00 800,401 52	2,667,588 48 11,637,485 08
Items not included in above, as follows Interest and dividends on assets	:		354,811 77	
Balance forwarded to next year		• • • • • • • • • • • • • • • • • • • •		11,535,220 14
ANAI	LYSIS OF CAPITAL ST	OCK.		
Amount authorized by charter or article	es of association			<b>8</b> 50,000 <b>,</b> 000 00
Par value of shares Number of shares issued Amount paid in on common	50,000	) <b>&amp;</b> ;	<b>19,466,50</b> 0 00	
Amount paid in on guaranteed				
Total amount paid in, as per books	of the company			\$50,000,000 00
Paid in per mile of road owned by comp	pany, 854.54 miles		•••••••	58,511 01

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
July 1, 1870, L. S. & M. S. consol. 1st mort- gage Apr. 1, 1869, L. S. Ry. dividend. Apr. 1, 1869, Buffalo & Erie mortgage. Dec. 1, 1873, L. S. & M. S. consol. 2d mort- gage	7\$ 7\$	July 1, 1900 April 1, 1899 April 1, 1896 Dec. 1, 1908	New York office and Union Trust Com-	\$14,440,000 0 1,855,000 0 2,705,000 0 24,692,000 0
Total funded debt (L. S. & M. S. proper)		[	pany, N.Y.	\$43,192,000 0
Aug. 1, 1876, Det., Mon. & Toledo 1st mort- gage Jan. 1, 1890, Kal. & Wh. Pigeon 1st mort- gage	1 7≰	Aug. 1, 1908 Jan. 1, 1940		924,000 0 400,000 0
Total funded debt	<u> </u>			\$44,516,000 0

## PROAPITHI, ATTON. GENERAL BALANCE SHEET.-DB. -884.000.000 00 20.011.334 48 Cash items: Cash \$1,825,019 57 Bills receivable 33,211 14 Due from agents 198,099 35 38,211 14 198,099 35 2,056,380 06 Materials and supplies \$948,568 45 Debit balances from companies and individuals 1,204,493 92 General office property and other real estate 486,007 59 2,689,069 96 Total \_\_\_\_\_\_\_\_\$108,706,784 50 GENERAL BALANCE SHEET.-CR. Capital stock \$50,000,000 00 Funded debt 44,516,000 00 Dividends unpaid \$1,526,499 94 Vouchers and accounts 1,129,014 42

#### COST OF ROAD AND EQUIPMENT.

ANALTSIS OF SARNINGS.—IN STATE OF MICHIGAN.
PARRICHE MARNINGS.

	Local fares.	Through 7	Total passen-	Express and baggage.	Moils.	Total.	Por train mile.	Per mile of road.
Main line and branches	3523,542 00	29 228,183	\$295,365 22	\$84,575 07	8288,916 88	\$688,867 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	43,408 97
Legsed or proprietary roads. Distroit, Monroe & Foledo Kelemazoo A logato & Grand Rapide. Kulemaz o & White Pigeon Northert Central Michigan Fort Wayne & Jacken Detroit Holde & Southwestern Detroit & Chicago	112,12 21,041 21,061 21,062 21,11,100 21,11,100 21,518 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 36,041 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Total passenger department earnings	\$558,076 18	144,708 17	\$597,784.85	\$100,302 63	1290,920 36	\$1,006,907.14	80 <b>14</b>	\$1,750 48
		PREIGHT R.	BARNINGS.					
		Local traffic.	Throngh traffic.	Total traffic.	Other sources, freight department.	Total.	Per train	Per mile of road.
Main line and branches.	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	\$418,142,60	***	\$413,142 60	8F 0T8\$	\$413,813 <b>36</b>		\$2,204.89
Lensed or propressing roads.  Detroit, Monroe & Yoledo.  halamazo, Alegan & Grand Rapids  kalamazo & White Pigeon  Northern (*, tra) Medigan  Fort Wayne & Jackson  Detroit Hilledale & Southwestern  Stargie, Goshen & St. Louis		348,000 18 52,825 68 58,246 57 88,073 40 22,173 86 1,747 41	229, 277, 229, 277, 229, 277, 230, 277, 46, 29, 281, 17, 295, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	277,878 62,699 62,699 62,766 62,766 20,867 20,867 17,77,1	85.00 85.80 85.80 10.00 10.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 14.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00	28,453 12,23 12,23 12,23 12,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23 13,23	\$\begin{array}{cccccccccccccccccccccccccccccccccccc	7,089 1,171,1 1,416,03 118,03 118,03 108,008 108,000 108,000 108,000
Total freight department earnings.		\$962,740 45	\$61,285 74	61,024,076 19	\$17,308 71	\$1,041,384.90	81 80	\$1,810 25

ANALISIS OF EARNINGS.—ENTIRE LINES, PARENGER MARNINGS.

	Local fares.	Through farm.	Total passenger fares.	Express and baggner.	Maile.	Total.	Per train	Per mile of road.
Main line and branches	\$9,119,681 49	\$947,204.97	H,006,836 46	\$607,544.55	11,855,618 89	16 000,020,00		61,056 40
Leased or proprietary toads. Makining Coal Railroad Janestown & Franklin R. R. (spiral Trink & E. Toledo R. R. Ralamario Allogan & Grand Rapids B. R. Kalamario & White Pigeon R. R. Northern Central Michigan R. R. Fort Wayne & Jack son E. R. Fort Wayne & Jack son E. R. Detroit, Hillsdule & Southwestern R. R. Detroit & Chingo R. R. Stright, Hoshen & St. Louis R. R.	24121222223 28222323 22222323 2222252323	22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	86 26,22,23,23,23,23,23,23,23,23,23,23,23,23,	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	472 - 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	56.85.85.85.85.85.85.85.85.85.85.85.85.85.	0 1 0 0 0 0 0 0 0 1 0 1 0 1 0 0 0 0 0 0	1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Total passenger department earnings	\$8,556,200 79	\$964,844.48	14,520,045 27	\$647,191 81	\$1,415,558 00	\$6,562,790 08	17 18	\$4,572.46
		FREEDRE	BARNINGS.			i		
		Local Traffic.	Through traffic.	Total traffic.	Other sources, freight department.	Total.	Per train mile.	Per mile of road,
Main line and branches		\$8,194,808.14	48, 487, 879 01	\$1,777,15	\$234,179 82	11,808,956 97		\$13,816 74
Leaved or proprietary roads  Mat oning that R. R. Jamestown & Franklin R. R. Jamestown & Franklin R. R. Leavent Trunk R. R. Detroit, Main et a Toledo R. R. Kalamazoo, Allegan & Grend Rapids R. R. Kalamazoo & White Pigenn R. R. Northan Gentral Methigan R. R. Fort Wayre & Jackstu R. R. Detreit Wayre & Jackstu R. R. Detreit & Chicago R. R. Detroit & Chicago R. R. Sturges, Goehen & St. Louis R. R.	1	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	151, 154, 48 2, 622 18 8, 800 06 8, 730 46 8, 730 48 81 780 48 81 780 48	20,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000 130,000	2,562 915 915 1,000 1,722 1,722 1,722 1,578 1,722 1,722 1,578 1,722 1,578 1,54 1,54 1,54 1,54 1,54 1,54 1,54 1,54	25.25.25.25.25.25.25.25.25.25.25.25.25.2		21, 22, 086 21, 17, 1086 20, 171, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Total freight department earnings		19,466,324 62	\$3,576,525 25	13,043,019 87	\$245,992 05	\$13 289,041 92	81 80	<b>49</b> ,230 <b>68</b>

Total transportation earnings, entire line  Transportation earnings per mile of road \$13,808 14  Transportation earnings per train mile	\$19,871,882 00
Miscellaneous receipts from operating account other than for transportation, as follows:	
From rents of tracks, yards and terminals 315,121 20 From other sources 7,004 34	) :
Total	322,125 54
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Total earnings per train mile Total earnings per train mile Income other than from earnings: Interest and dividends on assets	20,193,957 54 854,811 77
Total income from all sources	
Proportion of igcome for Michigan	2.048.382 24
•	
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway  Renewals of rails  Renewals of ties	\$1,098,709 15
Repairs of roadway Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of benees, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses	215,638 39 303,109 09
Repairs and renewals of bridges and culverts.	187,992 22 99,940 17 243,245 86 23,790 21
Repairs and renewals of fences, road crossings, signs and cattle guards	99,940 17
Repairs and renewals of buildings and fixtures	243,245 86
Repairs and renewals of docks and wharves	23, 190 21 29,642 77
Stationery and printing	6,922 56
Other expenses	152 77
Total	\$2 200 142 80
AV##	=====
MAINTENANCE OF EQUIPMENT.	
Superintendence  Repairs and renewals of locomotives  Repairs and renewals of passenger cars  Repairs and renewals of freight cars  Repairs and renewals of work cars  Repairs and renewals of marine equipment  Repairs and renewals of stop machinery and tools  Stationery and printing  Other expenses  Total	
· CONDUCTING TRANSPORTATION.	
Supportendence	#9K1 061 46
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Switchmen, fiagmen and watchmen Telegraph expenses Station service Station service Station service Station service Car mileage—balance Loss and damage Injuries to persons Clearing wrecks	\$251,061 46 1,269,551 65 971,647 69 57,869 29
Fuel for locomotives	971,647 69
Water supply for locomotives.	57,869 24
On tailow and waste for locomouves	88,427 95 12,790 85 847,937 67 139,417 31 863,647 97
Train sarvine	847,937 67
Train supplies and expenses	139,417 31
Switchmen, flagmen and watchmen	863,647 97
Telegraph expenses	304,614 00 1,251,610 21 81,409 88
Station service	1,251,610 21
Station supplies	199 409 78
Car milago — halanca	509, 702, 65
Loss and damage	87.541 12
Injuries to persons	149,961 56
Clearing wrecks	122,402 75 509,702 65 87,541 12 149,961 56 11,824 92
Advertising	25,148 18
Commissions	815,484 71 1,565 80 15,228 50
Commissions	1,000 80
Benta for tracks, varies and terminals	180,176 67
Rent of buildings and other property	6.894 59
Stationery and printing	140,597 77
Clearing wroots Advertising Outside agencies Commissions Stock yards and elevators. Rents for tracks, yards and terminals. Rent of buildings and other property Stationery and printing Other expenses	6,894 58 140,597 77 7,912 09
Total	

#### GENERAL EXPENSES.

Salaries of general officers. Salaries of clerks and attends General office expenses and su Insurance Law expenses. Stationery and printing (general officer expenses. Taxes.	pplies				\$87,183 12 184,085 10 10,029 88 2,756 25 65,227 97 9,101 40 14,818 07 761,918 87 \$1,085,175 16
	RECAPITULATI	on of expenses		er cent of xpenses.	
Maintenance of way and strue Maintenance of equipment Conducting transportation General expenses, including to	ctures			.16 .20 .56 .08	\$2,209,142 69 2,767,409 69 7,664,427 13 1,085,175 16
Total operating expenses a	and taxes			100.00	\$13,726,154 67
Operating expenses and taxes Operating expenses and taxes 12,046,719 miles	per mile of road s per train mile ru	n for trains earnin	ng revenue,	\$9,534 52 1 14	
PROPORTION	OF OPERATING EX	PENSES AND TAXES	FOR MICHIG	3AN. `	
Main line					\$933,845 88
Leased and proprietary roads Detroit, Monroe & Toledo Detroit & Chicago Detroit, Hillsdale & Southw Fort Wayne & Jackson Northern Central Michigan. Kalamazoo & White Pigeon. Kalamazoo, Allegan & Gran. Sturgis, Goshen & St. Louis.					848,635 72 62,351 20 56,304 93 107,285 94 121,210 90 91,110 91 143,563 74 12,529 15
Total estimated expense	s in Michigan, 1896			\$1	,876,838 87
Percentage of expenses to ear Net earnings per mile of road Net earnings per train mile, er	nings, entire line , entire line tire line		4,	67.97 492 59 58.7	
	DESCRIPTI	ON OF ROAD.			
•	MAIN	t LINE.			
In Michigan, from State line (In New York, from Buffalo to In Pennsylvania, from State line A. a. In Indiana, from State line Min Illinois, from State line Inc.	Ohio and Mich. to State line New York State line New York Ine N. Y. and Pa. to Ind Ohio to State line Ich. and Ind. to State I. and Ill. to Chicago	ate line Mich. and I and Pa. State line Pa. and C Ohio and Mich. line Ind. and Ill.	nd	Miles. 116.07 69.50 44.06 194.44 101.95 14.02	Miles.
Total length completed					540.04
Length of double track	On branches	{ L. S M. S	78.24 102.91 ————————————————————————————————————	176.15	
	On main line*	{ м. s	98.50	814.42	490.57
Length of third track on main	line				9.68

#### BRANCHES.

Sandusky, from Elyria Junction to Millbury Junction via. Sandusky. Sandusky Pier. from Sandusky Junction to old depot. Sandusky. Air Line, from Air Line Junction to Elkhart via. Air Line. Jackson, from Lenawee Junction to Jackson. Monroe, from Lenawee Junction to Monroe Dunkirk, from Junction with D. A. V. & P. R. R. at Dunkirk Ashtabula Harbor, from Ashtabula Harbor to main line crossing. Ashtabula, from Ashtabula to State line Ohio and Pennsylvania. Central Trunk, from State line Ohio and Pa. to Jamestown Detroit, from Air Line Junction to Detroit. Kalamazoo, from Air Line Junction to Detroit. Kalamazoo, from Mitte Pigeon to Kalamazoo. Lansing, from Jonesville to North Lansing Sturgis, G. & St. L., from Goshen to Findley.  Chandler to Corbus.  35.75 Grosvenor to Fayette. 25.56	.42.16 29.45 1.62 2.33 30.72 5.26 62.87 36.54	
Total length of branches owned by company*		577.47
Total length of branches owned by company in Michigan	291.47	
Total length of road belonging to this company (owned)		1,117.51
Total length of road belonging to this company in Michigan (owned)	407.54	
Aggregate length of tracks in Michigan belonging to this company, comput		510.71
Gauge of track, 4 feet 81/2 inches.		
Proprietary or leased roads operated by this company		
Name, description and langth of each	Total miles.	In Michigan.
	Total miles.	•
Name, description and length of each: Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids. Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers. Fort Wayne & Jackson R. R., from Fort Wayne to Jackson Jamestown & Franklin R. R., from Jamestown to Oil City.	58.45 64.76	58.45 64.76 44.52
Kalamazoo, Allegan & G. R. R. B., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers	58.45 64.76	58.45 64.76 44.52
Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers.  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson.  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown	58.45 64.76 97.83 50.91	58.45 64.76 44.52
Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdaie & S. W. R. R., from Ypsilanti to Bankers.  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson.  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown	58.45 64.76 97.83 50.91 	58.45 64.76 44.52
Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers.  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown	58.45 64.76 97.83 50.91 	58.45 64.76 44.52
Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers.  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown	58.45 64.76 97.83 50.91 50.20 322.15 1,439.66	58.45 64.76 44.52
Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdaie & S. W. R. R., from Ypsilanti to Bankers.  Fort Wayne & Jackson R. R., from Port Wayne to Jackson.  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown	58.45 64.76 97.83 50.91 50.20 322.15 1,439.66	167.73 575.27 Aggregate length, foet. 1,963.3
Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdale & S. W. R. R., from Ypsilanti to Bankers.  Fort Wayne & Jackson R. R., from Fort Wayne to Jackson.  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown	58.45 64.76 97.83 50.91 50.20 322.15 1,439.66 Number.	167.73 575.27 Aggregate length, feet. 1,963.8 120
Kalamazoo, Allegan & G. R. R. R., from Kalamazoo to Grand Rapids.  Detroit, Hillsdaie & S. W. R. R., from Ypsilanti to Bankers.  Fort Wayne & Jackson R. R., from Port Wayne to Jackson.  Jamestown & Franklin R. R., from Jamestown to Oil City.  Mahoning Coal R. R.:  From Andover to Youngstown	58.45 64.76 97.83 50.91 50.20 322.15 1,439.66 Number	167.73 575.27 Aggregate length, feet. 1,963.8 120 4,004.6

Draw bridges in Michigan.

How many on your line?
Two.

Where located, when built and length of draw span:
One at Grand Rapids over Grand River, built in 1893, draw 142 feet 8 inches.
One at West Detroit over Rouge River, built in 1887, draw 165 feet.

<sup>\*</sup>Exclusive of 7.84 miles of double track owned by this company and leased to N. Y. C. & St. L. Ry. Co.

Character of structure: Both Pratt Truss.

Material of which constructed:
Both iron.

Height above water, and depth of water under bridge: Grand River, 22 feet, depth 7 feet; Rouge River, 13 feet; depth 16 feet.

How swung, by engine or hand power? Both hand.

Approaches straight or curved?
Grand River curved; Rouge River straight.

#### Crossings .- Railroad and highway.

#### What railroads cross your road at grade in this State, and at what locality?

Name of road.	Location.	Branch or line crossed.
G. B. & I.	Grand Rapids	Kalamazoo.
G. R. & I.	Piainwell	Kalamazoo.
G. R. & I.	Kalamazoo	Kalamazoo.
G. R. & I.	Kalamazoo "Y" to M. C.	Kalamazoo.
G. R. & I.	Sturgis	Goshen & Michigan.
G. B. & I.	Sturgis	Old road.
Michigan Central	Kalamazoo	Kalamazoo.
Michigan Central	Three Rivers	Kalamazoo.
Michigan Central	Homer	Lansing.
Michigan Central		Lansing.
Michigan Central	Eaton Rapids	Lansing.
Michigan Central	Jackson	Lansing. Fort Wayne.
Michigan Central		Jackson.
Michigan Central	Detroit	Detroit.
Michigan Central		Detroit.
Michigan Central	Monroe	Monroe (dock track).
Wabash	Raisin Centre	Jackson.
Wabash	Adrian	Old road.
Ann Arbor		Ypsilanti.
Ann Arbor	Federman	Monroe.
Ann Arbor	Dundee	Parette.
D. & W. M.	Grand Rapids	Fayette. Kalamazoo.
Ö. & W. M.	Grandville	Kalamazoo.
). & G. T.	Sebasieme#	Valamana
C. & G. T		Lansing
7. & P. M.	Monroe	Monroe
P. & P. M.	Carleton	Fayette.
J. J. & M.	Allegan	Kalamaraa
J. J. & M.	Homer.	Lansing.
J. J. & M.	Hanover	
C. J. & M.	Tecumseh	Jackson.
Union Terminal Ass'n	Delray (between West Detroit and	JACKBOIL.
Union Terminal Ass II	" Delle's (permeen Mest Derloit and	Detroit.
C. K. & S	Ecorce)	Kalamazoo.
Lansing Transit		
C. & K. T.	Kalamazoo (Standard Wheel Com-	
	_ pany's track)	Kalamazoo.
L. S. & M. SG. & M. Branch	Sturgis	Old road.
L. S. & M. S.—Fort Wayne Branch	Fort Wayne Junction	Old road.
L. S. & M. S. Monroe Branch	Monroe (dock track)	Detroit.
L. S. & M. S. Monroe Branch	Lenawee Junction	
	1	_ old road.) _
L. S. & M. S.—Jackson Branch	Jackson	Fort Wayne Branch.

What railroads cross your road either over or under your grade in this State, and where? Over: C. J. & M. R. R. at Woodstock. Under: C. J. & M. R. R. at Hudson and Jerome.

## At what crossings are interlocking and derailing switches in operation?

!	Location.	Kind of apparatus.	Name of	maker.
C. & W. M. C. K. & S. C. & G. T. C. & G. T. and M. C.	Grandville Kalamazoo Schoolcraft South Lansing	Saxby-Farmer lever . Gravit Wheel Mach Saxby-Farmer lever U. S. & S. Co. Wheel Machinery.	U. S. & S. (Gravit Sig U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. &	nal. Co. Co.
M. C. & G. R. & I. M. C. & G. J. & M. M. C. & C. J. & M. M. C. Wabash	Albion Kalamazoo Homer Woodward Ave., W. Detroit. Woodmere, W. Detroit Raisin Centre	Saxby-Farmer lever Saxby-Farmer lever Saxby-Farmer lever Saxby-Farmer lever Saxby-Farmer lever	U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S. & S. (U. S.	Co. Co.
Wabash L. S. & M. S. Ft. Wayne Br. Union Terminal Assn	Adrian Ft. Wayne Junction. Delray	Sarby-Farmer lever Sarby-Farmer lever Sarby-Farmer lever Sarby-Farmer lever	U. S. & S. ( U. S. & S. ( U. S. & S. ( U. S. & S. (	Co. Co. Co.
What pattern or patterns he	ave you adopted?			
Lever machines. Number of crossings of high Number of crossings of h	hways at grade in this State ighways at grade in this Sta ch there are electric or autom	te at which there are	gates or	87. 6
Number of crossings at with What pattern or patterns in O'Neil electric.		atio signats		
Tumber of crossings of high Tumber of highway bridges Tumber of highway bridges	hways over or under railroad: 18 feet above track, less than 18 feet above track ected at overhead obstructions	over, 5; under 7		1
Yes.	ils blocked as required by act	174, session laws of 1883	<b>i.</b>	
How are they treated?  By wood and cast blocking	=			
	- Stations			
Number of stations on who Same in Michigan	le line: L. S. 132, M. S. 208			844 12
	Employés.		,	
Number of nessons secular	rly employed on all roads of	neveted by company	inelndine	
officials		potatou by company;		10 40
Demo In Witchigen				1,74
Classify your employés as p	er following list:			1,74 Number
Classify your employés as p BaggagemenBrakemen	er following list:			Number
Classify your employés as p Baggagemen Brakemen Conductors	er following list:			1,74 Number 19 70 35
Classify your employés as p Baggagemen Brakemen Conductors Engineers Firemen	er following list:			1,74 Number 19 70 35 60 63
Classify your employés as p Baggagemen Brakemen Conductors Engineers Firemen Laborers	er following list:			1,74 Number 19 70 35 60 63 2,72
Classify your employés as p Baggagemen Brakemen Conductors Engineers Friemen Laborers Shopmen Yardmen	er following list:			1,74 Number 19 70 35 60 2,72 2,00
Classify your employés as p Baggagemen Brakemen Conductors Englneers Friemen Laborers Shopmen Yardmen	er following list:			18,89 1,74 Number 19 70 85 60 63 2,72 2,01 97 5,67
Classify your employés as p Baggagemen Brakemen Conductors Englneers Firemen Laborers Shopmen Yardmen	er following list:	EWALS.		1,74 Number 19 70 35 60 63 2,72 2,01

#### Road bed and track.

Number of track sections in Michigan.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan.  Average number of new ties per mile of road, entire line	104 602,277 125,556 418
New rails put in track, entire line: Steel (tons 13,623) miles	
Bridges and culverts in Michigan.	
Amount of trestle work replaced with earth during the year (linear feet)	2,096
Timber culverts replaced during the year:	Number.
With iron pipe	46 85
Total	81

#### . New bridges built during the year. - In Michigan.

Nearest station.	Kind.	Material.	Month built.	Feet in length.
Dorr Dimondale Hortou Mosberville	Beam girder Plate Beam "	Steel	November	
SuttonAlexis	Platt truss and 3-span plate girder Plate girder Beam girder	66 66	November December	255 ft. 8 in 40 ft. 72 ft. 6 in
Monroe		44	November	23 ft. 4 in 28 ft. 4 in 19 ft. 4 in
Cadmus Cadmus Biga	Plate girder	"	January August	70 RA

#### ROLLING STOCK.

Number of locomotives of more than 30 tons weight, exclusive of tender	523	Present esti- mated value. \$2,441,155 00 77,500 00
Total		\$2,518,655 00
Number of passenger cars—12-wheel, including official cars. Number of passenger cars—8-wheel, including official cars. Number of express and baggage cars Number of box freight cars Number of stock cars Number of platform cars Number of ore cars Number of conductors' way cars Other cars	59 268 98 11,313 759 2,247	\$1,043,122 00 
Total	20,464	\$7,656,488 00
Number of locomotives equipped with power brakes  Number of passenger train cars equipped with power brakes  Number of fraught cars equipped with power brakes		425

What patterns of power brakes have you in use, and number of locomotives Locomotives:		each?
Westinghouse air brakes	- 881 - 19	
Beal's brakes	. 1	
Lander's brakes	. 147	548
Cars: Westinghouse air brakes.		980
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887? Yes.	/ act No. 147, s	ession laws
What pattern or patterns have you adopted for use? Gould.		
How are your passenger cars heated? L. S. & M. S. system of steam heat, and Baker heaters.		
MILEAGE, TRAFFIC, ETC.		
Train mileage.	Entire lines. I	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year	4,655,889 7,891,880	981,781 800,298
Total mileage of trains earning revenue	12,046,719	1,782,024
Passenger traffic.—Entire lines.		
Number of through passengers carried, earning revenue	1	Rate.
Total number of passengers carried, earning revenue 4,519,887	i	
Number of passengers carried one mile 211,120,592 Average distance carried. Average amount received from each passenger Average receipts per mile for through passengers	46.7	\$1 00
Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers  Estimated cost of carrying each passenger one mile		02.071 02.161 02.141 01.399
Passenger traffic.—In State of Michigan.	•	
Number of through passengers carried, earning revenue 17,708 Number of local passengers carried, earning revenue 918,414	, •	
Total number of passengers carried, earning revenue 936,122		
Number of passengers carried one mile 25,906,574  Average distance carried	26.7	
Average distance carried	20.1	\$0 64
Average receipts per mile for through passengers		02.166
Average amount received from each passenger  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receips per passenger per mile for all passengers		03.820 02.807
		<del></del>
Freight traffic.—Entire lines.	3621	
Tons.		Rate.
Number of tons of through freight carried, earning revenue		
Total tons of freight carried earning revenue		
Total mileage of through freight.  Total mileage of local freight  Total freight mileage or tons carried one mile  Average ton haul for through freight.  Average ton haul for local freight.  Average amount received for each ton haul.  Average receipts ton per mile for through freight	746,489,669 1,630,544,449 2,377,034,118 384.8 142.6 178.9	<b>\$</b> 0 <b>9</b> 5.5
Average receipts ton per mile for through freight  Average receipts per mile, for local freight.  Average receipts ton per mile for all freight.  Estimated cost of carrying one ton one mile		00.479 00.581 00.549 00.887

#### Freight traffic.—In State of Michigan.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	115,109 2,268,522		
Total tons of freight carried, earning revenue	2,383,631		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile for local freight Average receipts ton per mile for local freight Average receipts ton per mile, for all freight		16.5 58.8	\$0 43 00.528 00.750 00.781

#### FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

#### Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	originating on this road. Whole tons.	roads and	Whole tons.	Per cent.
Products of agriculture:				
Grain	249,175	770,348	1,019,518	7.46
Flour Other mill products	121,814	168,188 152,276	289,952	2.12 1.59
Hay	64,948 80,265	98,578	217,224 178,887	1.27
Tobacco	409	9,090	9,499	0.07
Cotton	741	46,492	47,233	0.85
Fruit and vegetables, includes potatoes Other agricultural products.	63,854	46,492° 188,816	202,670	1.48
Other agricultural products.	48,248	42,017	85,265	0.62
roducts of animals:				
Live stock	166,498	208,777	375,275	2.75 1.01
Other packing house products	78,714	58,992	137,706	
Other packing house products	121,544	146,942	268,486	1.96
Poultry, game and fish	18.337	27,825	46,162	0.34
Wool Hides and leather	2,816	12,891	15,207	0.11
Hides and leather	17,924	29,257	47,181	0.35
roducts of mines:				
Anthracite coal		258,551	675,869	4.95
Bituminous coal	145,001 8,783	2,992,640	8,187,641	22.96 2.62
Coke Ores, pyrites and lead	2,814	358,777 1,283,482	357,560 1,285,796	2.02 9.04
Stone, sand, and other like articles	893,867	284.865	1,177,782	8.62
Salt	52,017	89,899	91,416	0. <b>67</b>
roducts of forest:				
Lumber, timber, shingles and lath	107,149	433,129	540,278	8.96
Other forest products	71,629	87,405	159,034	1.16
fanufactures:	000 000	00 001		
Petroleum and other oils	272,076 12,159	98,021 98,309	870,097 110,468	2.71 0.80
Sugar	59,241	121,838	181,074	1.82
Iron and steel rails	521	60,221	60 742 1	0.45
Other castings and machinery	193,086	291,649	484,785	8.55
Bar and sheet metal	88,192	78,787	166,929	1.22
Cement, brick, tile, lime, sewer pipe and plas-				
ter	125,257 27,258	212,186 20,124	887,443	2.48
Wegone carriages tools etc	157,429	20,124 155,238	47,877 312,662	0.35 2.29
Wagons, carriages, tools, etc. Wines, liquors and beers	49,565	41,756	91,821	0.67
Household goods and furniture	23,805	24,065	45,870	0.88
Merchandise and other articles	170,395	332,153	502,548	3.68
fiscellaneous: Other commodities not mentioned above	812,285	<b>82</b> 8,827	641,112	4.69
Total tonnage	4,213,629	9,448,790	13,662,419	100

#### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight	Freight re- ceived from	Total freigh	it tonnage.
Commodity.	originating on this road. Whole tons.	connecting roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	56,235 72,006	103,635	159,870 153,152	6.71 6.48
PlourOther mill products	23,396	81,146 26,776	50,172	2.10
Other mill products Hay	36,114	13.855	49,969	2.10
Tobacco	42	1,847	1,389	.00
CottonFruit and vegetables, includes potatoes	18,747	3,912 35,663	3,912 54,410	. 16 2.28
Other agricultural products	6,419	13,451	19,870	.83
Products of animals:				
Live stock Dressed meats and dressed hogs	25,466 230	4,713	30,179 260	1.27
Other packing house products	7,274	3,525	10,799	.45
Poultry, game and fish	2.881	1,196	4.077	.17
Wool	859	368	1,222	.00
Hides and leather	1,401	2,864	4,265	. 18
Products of mines:		40. 000		
Anthracite coal Bituminous coal	26 231	124,358 647,839	124,384 648,070	5.22 27.19
Coke	147	28,243	26,390 i	1.11
Ores, pyrites and lead Stone, sand and other like articles	7	1.639	1,646	.07
Stone, sand and other like articles	89,553 538	45,999 19,886	85,552 20,424	8.59 .86
Products of forest:				
Lumber, timber, shingles and lath Other forest products	23,210 23,887	227,050 25,195	250,260 49,082	10.50 2.06
	20,001	20,100	20,002	2.00
Manufactures: Petroleum and other oils	4,191	59,449	68,640	2.67
Qn gen	4,839	3.951	8,790	.37
Iron, pig and bloom Iron and steel rails	2,833 96	15,836 5,009	18,669 5,105	.78 .21
Uther castings and machinery	20.0/4	91,092	119,766	5.02
Bar and sheet metal	16,479	7,154	23,633	.99
Cement, brick, tile, lime, sewer pipe and plas-	17 979	54,622	79 404	8.04
terAgricultural implements	4,659	5,967	72,494 10.626	3.0
Wagons, carriages, tools, etc. Wines, liquors, and beers	40,647	29,409	70.056	2.94
Wines, liquors, and beers	7,276 9,656	7,520 8,741	14,796 18,397	.62 .77
Merchandise and other articles	·	56,008	71,478	3.00
	,		12,2.0	2.00
Miscellaneous: Other commodities not mentioned above	61,912	74,915	136,827	5.74
Total tonnage	553,278	1,830,358	2,383,631	100

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co., Buffalo to Cleveland, pays from 15 cents to 50 cents per 100 lbs. on express freight.
United States Express Co., Buffalo to Chicago, pays from 20 cents to 85 cents per 100 lbs. on express freight.

These companies do a general express business and deliver freight to us at our depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it balong? Total miles wire on entire line		15,368
Miles wire in Michigan owned by railway company	367 1,911	
and railway company  Miles wire in Michigan owned jointly by Postal Telegraph Co. and railway	520	
company		
Total miles wire in Michigan		2,807

#### TRANSPORTATION COMPANIES.

#### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Sleeping and parlor cars owned and operated by Wagner Palace Car Company which charges \$2.00 for double berths and \$4.00 for section, and from 25 cents to \$1.50 for seats in drawing room cars.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED.

#### Employes.

July 8, John Ott, brakeman, Sturgis. Fell off car.

#### Trespassers.—(Not employes.)

February 12, Mrs. Frank Moore, Grosvenor. Struck by train.
January 12, Edwin Hand, Allen. Struck by train; intoxicated.
May 9, Frederic Cruse, Three Rivers. Struck by train
August 8, Louis Friend and Elmo Roberts, Blissfield. Struck by train; asleep on track.

#### At Highway Crossings.—(Not employes)

January 18, W. H. Bailey, Pittsford. Driving over crossing, struck by train. September 10, Welcome Merchant, Sturgis. Struck by train. November 12, Nelson Matthewson, West Detroit. Struck by train.

#### INJURED.

#### Employes.

December 28, 1895, H. W. Alford, brakeman, D. & M. Junction. Coupling.

March 6, W. T. Serviss, brakeman, Albion. Coupling.

March 14, Frank Cooney, brakeman, Detroit. Struck by car.

February 12, F. J. Engel, employé, Adrian. Jumped off moving train.

February 12, J. D Martin, laborer, Batavia. Struck by stone handled by derrick; accident.

November 24, W. D. Campbell, engineer, Chase's Bridge. Fell off bridge.

November 28, A. C. Knepper, brakeman, Sturgis. Coupling.

December 10, R. Green, brakeman, Plainwell. Fell off car.

December 19, E. T. Druland, brakeman, Detroit.

#### Trespassers - (Not employes.)

March 26. Chas. Gifford, Bronson Intoxicated.
May 12. David Taylor, Sturgis. Jumped off moving train.
July 13. Albert Pankow, West Detroit. Climbing between cars.
November 21, Myron Butts, Pittsford. Tried to board train.

#### At Highway Crossings.—(Not employes.)

May 21, Mrs. W. H. Vendeburg, Pittsford. Driving; horse ran away, struck by train. September 21, Oliver H. Law, Detroit. Riding bicyc.e; ran into train.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars Falling from trains		i			4 1 1	
Highway crossings Miscellaneous Prespassers on trains. Prespassers on tracks.			3 5		8	
Total		1	8		9	

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	9 15
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#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen Engineers Laborers Not classified above	1	6 1 1 1	7 1 1 1
Total	1	9	10

## STATE OF OHIO, COUNTY OF CUYAHOGA, 88.

P. P. Wright, assistant general manager, and R. H. Hill, auditor, of the Lake Shore & Michigan Southern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. R.] Signed,

P. P. WRIGHT, Assistant General Manager. R. H. HILL, Auditor.

Subscribed and sworn to before me this 24th day of March, A. D. 1897. [L. S.]

O. G. GETZEN-DANNER. Notary Public.

#### OF THE

### DETROIT & CHICAGO RAILROAD COMPANY.

For the year ending December 81, 1996.

[Filed January 20, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

#### DIRECTORS.

C. VANDEEBILT, New York City.
W. K. VANDERBILT, New York City.
D. W. CALDWELL, Cleveland, Ohio.
ASHLEY POND, Detroit, Mich.
CHAS. F. COX, New York City.
E. D. WORGESTER, New York City.
SAM'L F. BARGER, New York City.
D. W. PARDER, New York City.
O. G. GETZEN-DANNER, Cleveland, Ohio.
Terms expire when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 19, 1888. Number of stockholders at date of last election: 10. Number of stockholders in Michigan at same date: 1. Amount of full paid stock held in Michigan at same date: \$100.00. Date of annual meeting of stockholders: Second week in November. Fiscal year of company ends December 31. General offices of the company are located at Cleveland, Ohio.

#### REMARKS.

Entire capital stock owned by L. S. and M. S. R'y Co.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$1,000,000 00
Par value of shares Average price received per share. Number of shares issued	\$100 00 100 00 \$1,000,000 00
Total amount paid in, as per books of the company	\$1,000,000 00
Paid in per mile of road owned by company	16,049 00

#### COST OF ROAD AND EQUIPMENT.

TOTAL COST FOR CONSTRUCTION AND EQUIPMENT OF ROAD AND BRANCHES BU	ILT BY OLD	COMPANY.
Total expended for construction and equipment.  Average cost of construction per mile of road (not including sidings), 62.31 mile  Proportion of cost of construction for Michigan	8	5,176,557 58 76,576 29 4,789,416 54
DESCRIPTION OF ROAD.		
MAIN LINE.		2011
Length completed in Michigan	Miles. 57.65 4.66	Miles.
Total length completed		62.81
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan	57.63	62.31
Aggregate length of tracks belonging to this company, computed as single to	ack	67.91

Gauge of track, 4 feet 81/2 inches.

STATE OF OHIO, COUNTY OF CUYAHOGA, } 58.

D. W. Caldwell, president, and O. G. Getzen-Danner, secretary, of the Detroit & Chicago Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

D. W. CALDWELL, President.

O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.

Same in Michigan

[L. S.]

W. T. SMITH,
Notary Public.

#### OF THE

## DETROIT, HILLSDALE & SOUTHWESTERN RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed February 3, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ELIJAH SMITH, Boston, Mass.
Secretary, P. W. SMITH, Boston, Mass.
Treasurer, P. W. SMITH, Boston, Mass.
Transfer Agent, Farmers' Loan & Trust Co., New York, N. Y.

#### DIRECTORS.

ELIJAH SMITH. Boston, Mass.
PROSPER W. SMITH, Boston, Mass.
CALEB W. LORING, Boston, Mass.
EDWARD L. GIDDINGS, Boston, Mass.
FEANK O. SQUIRE, Boston, Mass.
EDWARD C. PERKINS, Boston, Mass.
GEO. H. EAGER, Boston, Mass.
LEVERETT S. TUCKBEMAN, Boston, Mass.
GEO. B. WARREN, Troy, N. Y.
Terms expire January 12, 1897.

#### Terms expire January 12, 1001.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 30, 1875.

Number of stockholders at date of last election: 836

Number of stockholders in Michigan at same date: 3.

Amount of full paid stock held in Michigan at same date: \$1,700.00

Date of annual meeting of stockholders: Second Tuesday in January.

Fiscal year of company ends January 1.

General offices of the company are located at Ypsilanti, Mich.

#### REMARKS.

The property of the Detroit, Hillsdale & Southwestern Railroad Company is leased in perpetuity to the Lake Shore & Michigan Southern Railway Company; lease is dated Sept. 5, 1881; the terms are \$40.500 per annum until July 1, 1883, and \$44.000 per annum thereafter, payable semi-annually on January 1st and July 1st; the leasee also pays \$500 per annum for organization expenses.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$1,00,00	,850,000 00
Average price received per share	100.00	
Amount paid in on common.		
Total amount paid in as per books of the company	<del></del>	,850,000 00
Paid in per mile of road owned by company		20,705 52

## MICHIGAN RAILROAD RETURNS, 1896.

#### ANALYSIS OF DEBT ACCOUNTS.

Total amount of stock and debt	\$1,850,090 00 20,705 53
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road, and branches built by comp	any.
Total expended for construction Average cost of construction per mile of road (not including sidings), 65.20 miles Total expended for equipment. Average cost of equipment per mile, 65.20 miles Proportion of cost of equipment for Michigan	19,819 00 58,511 74 820 78
DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: November, 1873.	
MAIN LINE.  Miles Length completed in Michigan 65.2	
Total length of road belonging to this company	- . 65.20
Total length of road belonging to this company in Michigan	4.29
Aggregate length of tracks belonging to this company computed as single track.	-
Same in Michigan	69.49
Gauge of track, 4 feet 8% inches.	

## STATE OF MASSACHUSETTS, } ss.

Prosper W. Smith, secretary, of the Detroit, Hillsdale & Southwestern Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF E. B.] Signed, PROSPER W. SMITH, Secretary.

Subscribed and sworn to before me this 18th day of January, A. D. 1897.

PERCY G. BOLSTER, Notary Public.

#### OF THE

## DETROIT, MONROE & TOLEDO RAILBOAD COMPANY,

For the year ending December 81, 1896.

[Filed January 20, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

#### DIRECTORS.

C. VANDERBILT, New York, N. Y.
W. K. VANDERBILT, New York, N. Y.
D. W. CALDWELL, Cleveland, Ohio.
E. D. WORCESTER, New York, N. Y.
D. W. PARDER, New York, N. Y.
ASHLEY POND, Detroit, Mich.
GBO. C. GERENS, Cleveland, Ohio.
P. P. WRIGHT, Cleveland, Ohio.
ADDISON HILLS, Cleveland, Ohio.
E. D. POTTER, JR., Toledo, Ohio.
O. G. GETZEN-DANNER, Cleveland, Ohio.
Terms expire when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 6, 1885. Number of stockholders at date of last election: 13. Number of stockholders in Michigan at same date: 1. Amount of full paid stock held in Michigan at same date: \$100.00. Date of annual meeting of stockholders: Fourth Tuesday in April. Fiscal year of company ends December 31. General offices of the company are located at Cleveland, Ohio.

#### REMARKS.

Entire capital stock except one share owned by L. S. & M. S. R'y Co.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares \$100 00 Number of shares issued 4,141	\$414,100 00
Total amount paid in as per books of the company	\$414,100 00
Paid in per mile of road owned by company	6,640 47

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out- standing.
First mortgage	7%	1906		\$924,000 00
	RECAPITUL	ATION.		<del>-</del>
Total funded debt				\$924,000 00
Total debt liabilities				\$924,000 00
Amount of debt liabilities per mile of road Total amount of stock and debt Stock and debt per mile of road				. 1.838.100 00
INTERE	ST ON THE	FUNDED DEBT.		
What is the amount of same due each year Was it paid for the last year? Yes.	·	,		. \$64,680 00
COST OF	ROAD ANI	D EQUIPMENT		
Total cost for construction and e	equipment of	road and brane	has built be common	
			nes ount by compan	reg .
Total expended for construction	oad (not inc			
Average cost of construction per mile of r Proportion of cost of construction for Mic	oad (not incohigan	luding sidings),		
Average cost of construction per mile of r Proportion of cost of construction for Mic		luding sidings), OF ROAD.	62.36 miles	\$1,881,600 00 22,155 22 1,193,881 88
Average cost of construction per mile of r Proportion of cost of construction for Mic	CRIPTION  MAIN LI	luding sidings), OF ROAD.	62.36 miles	\$1,881,600 00 22,155 22 1,193,881 88
Average cost of construction per mile of r Proportion of cost of construction for Mic DES	CRIPTION MAIN LE	luding sidings), OF ROAD.	62.36 miles	\$1,381,600 00 22,155 22 1,193,381 88
Average cost of construction per mile of r Proportion of cost of construction for Mic DES Length completed in Michigan	CRIPTION  MAIN LI	luding sidings), OF ROAD.	62.36 miles	\$1,881,600 00 22,155 22 1,193,881 88 
Average cost of construction per mile of r Proportion of cost of construction for Mic  DES  Length completed in Michigan  Longth completed in Ohio	CRIPTION  MAIN LI	luding sidings), OF ROAD.	62.36 miles	\$1,881,600 00 22,155 22 1,193,881 88 
Average cost of construction per mile of r Proportion of cost of construction for Mic  DES  Length completed in Michigan	CRIPTION MAIN LE	OF ROAD.	62.36 miles Miles 54.6	\$1,881,800 00 22,155 22 1,193,281 88 Miles.
Average cost of construction per mile of r Proportion of cost of construction for Mic  DES  Length completed in Michigan  Longth completed in Ohio	CRIPTION MAIN LE	of ROAD.	62.36 miles Miles 54.6	\$1,881,800 00 22,155 22 1,193,281 88 Miles.
Average cost of construction per mile of r Proportion of cost of construction for Mic  DES  Length completed in Michigan	BRANCHI apany in Micher track no	of ROAD.	62.36 miles Miles 54.6° 7.60	\$1,881,600 00 22,155 22 1,193,881 88  Miles. 7 62,86 2.45 62,86
Average cost of construction per mile of r Proportion of cost of construction for Mic  DES  Length completed in Michigan	CRIPTION  MAIN LE  BRANCHI  apany in Micher track not  this compa	OF ROAD.  NE.  ES.  bigan	62.36 miles	. Miles.  7 62.36 2.45 62.36 7 62.36 7 62.36 7 62.36
Average cost of construction per mile of r Proportion of cost of construction for Mic  DES  Length completed in Michigan  Length completed in Ohio  Total length completed  Length of double track on main line  Total length of road belonging to this com Total length of road belonging to this com Aggregate length of sidings, spurs, and otl	BEANCHI apany in Micher track not	OF ROAD.  NE.  Es.  higan  t above enumera	62.36 miles	. \$1,881,800 00 22,155 22 1,193,381 88

STATE OF OHIO, COUNTY OF CUYAHOGA, }88.

D. W. Caldwell, president, O. G. Getzen-Danner, secretary, of the Detroit, Monroe & Toledo Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

[L. S. OF R. R.]

D. W. CALDWELL, President. O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897. [L. S.]

W. T. SMITH. Notary Public.

OF THE

#### FORT WAYNE & JACKSON RAILROAD COMPANY.

For the year ending December 31, 1897.

[Filed March 26, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, SAMUEL SLOAN, New York City.
Secretary, WHITTLESEY D. SEABLS, New York City.
Treasurer, WHITTLESEY D. SEARLS, New York City.
Transfer Agent, THE FARMERS' LOAN & TRUST CO., New York City.

#### DIRECTORS.

SAMUBL SLOAN, New York City.
R. G. RALSTON, New York City.
LAWRENCE TURNURS, New York City.
W. D. SEARLS, New York City.
S. S. PALMER, New York City.
S. S. PALMER, New York City.
HENRY BESTE, New York City.
WM. S. SLOAN, New York City.
DWIGHT MERRIMAN, Jackson, Mich.
J. F. JOY, Jackson, Mich.
J. M. ROOT, Jackson, Mich.
Term expires January 23, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association signed: December 31, 1879.
Number of stockholders at date of last election: 830 preferred, 77 common.
Number of stockholders in Michigan at same date: 12.
Amount of full paid stock held in Michigan at same date: \$114,800, par value.
Date of annual meeting of stockholders: January 25, 1896.
Fiscal year of company ends January 23, 1897.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association			\$27,275	48
Par value of shares		\$100	•	
Average price received per share: Issued for bonds. Number of shares issued	27,275			
				_

#### DESCRIPTION OF ROAD.

MAIN LINE.	Miles.	Miles.
Length completed in Michigan Length completed in Indiana	44.54 53.29	A 1146.
Total length completed		97.83
Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Aggregate length of sidings, spurs, and other tracks not above enumerated	44.54	97.88 18.71
Same in Michigan  Aggregate length of tracks belonging to this company, computed as single	4.81	20.12
track Same in Michigan	49.35	111.54
Gange of track, 4 feet 814 inches.		

STATE OF NEW YORK, }88.

Samuel Sloan, president, and Whittlesey D. Searls, secretary, of the Fort Wayne & Jackson Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.]

Signed,

SAM, SLOAN, President. W. D. SEARLS, Secretary.

Subscribed and sworn to before me this 1st day of February, A. D. 1897.

W. B. CARDOZO.

Notary Public, No. 18, New York County.

OF THE

# KALAMAZOO, ALLEGAN AND GRAND RAPIDS RAILROAD COMPANY.

For the year ending December 31, 1897.

[Filed January 29, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, J. H. WADE, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, HORACE B. CORNER, Cleveland, Ohio.

#### \*DIRECTORS.

O. M. BABNES, Lansing, Mich.
CHAS. A. OTIS, New York, N. Y.
J. H. WADE, New York, N. Y.
H. B. PERRINS, Warren, Ohio.
DAN. P. RELLS, Cleveland, Ohio.
D. W. CALDWELL, Cleveland, Ohio.
H. B. CORNER, Cleveland, Ohio.
Terms expire when their successors are elected.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed, January 8, 1869.
Number of stockholders at date of last election: 99.
Number of stockholders in Michigan at same date: 9.
Amount of full paid stock held in Michigan at same date (30 shares): \$3,000.
Date of annual meeting of stockholders: First Wednesday in May.
Fiscal year of company ends, December 31.
General offices of the company are located at Cleveland, Ohio.

#### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.	\$610,000 00
Par value of shares	
Total amount paid in, as per books of the company	610,000 00
Paid in per mile of road owned by company	10,441 68

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5%	July 1, 1938		\$840,000 00

<sup>\*</sup> Two vacancies.

#### RECAPITILATION.

Total funded debt	\$840,000 00 840,000 00 14,378 64 1,450,000 00 24,820 27
INTEREST ON THE FUNDED DEST.	
What is the amount of same due each year	\$42,000 00
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road, and branches built by compan	y.
Total expended for construction Average cost of construction per mile of road (not including sidings), 58.42 miles Proportion of cost of construction for Michigan	\$1,450,000 00 24,820 00 1,450,000 00
DESCRIPTION OF ROAD.	
MAIN LINE. Miles.	Miles
Length completed in Michigan	58.42
Aggregate length of sidings, spurs, and other tracks not above enumerated	70.00

Gauge of track, 4 feet 8% inches.

STATE OF OHIO, COUNTY OF CUYAHOGA, }88.

J. H. Wade, president, and O. G. Getzen-Danner, secretary, of the Kalamazoo, Allegan & Grand Rapids Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

J. H. WADE, President,

O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D., 1897.

[L. S.]

W. T. SMITH, Notary Public.

### OF THE

## KALAMAZOO & WHITE PIGEON RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed January 20, 1897.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio.
Secretary and Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

### DIRECTORS.\*

- D. W. CALDWELL, Cleveland, Ohio.
- O. G. GETZEN-DANNER, Cleveland, Ohio.
- D. P. CLAY, Grand Rapids, Mich.
- D. B. MERRILL, Kalamazoo, Mich.
- J. W. OSBORNE, Kalamazoo, Mich.
- P. P. WRIGHT, Cleveland, Ohio.

Terms expire when their successors are elected.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 14, 1869.
Number of stockholders at date of last election: 8.
Number of stockholders in Michigan at same date: 4 individual stockholders and the L. S. & M. S. By.
Co.
Amount of full paid stock held in Michigan at same date: 4 shares besides 2,302 held by L. S. & M. S.
By. Co.
Date of annual meeting of stockholders: First Wednesday in May.
Fiscal year of company ends: December 31st.
General offices of the company are located at Cleveland. Ohio.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$230,900 00
Number of shares is ued	230,900 00
Total amount paid in as per books of the company	\$280,900 00
Paid in per mile of road owned by company	6,313 64

## ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage	5≰	Jan. 1, 1949		\$400,000 00

<sup>\*</sup> One vacancy.

### RECAPITULATION.

EECAPITULATION.	
Total funded debt. Amount of debt liabilities per mile of road, 36.57 miles. Total amount of stock and debt. Stock and debt per mile of road.	\$400,000 00 10,987 92 630,900 00 17,251 56
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year	\$20,000 00
Was it paid for the last year? Yes.	
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	j.
Total expended for construction	\$610,000 00 16,680 00 610,000 00
DESCRIPTION OF ROAD.	
MAIN LINE.	200
Length completed in Michigan	Miles.
Total length of road belonging to this company  Total length of road belonging to this company in Michigan	36.57
Aggregate length of sidings, spurs, and other tracks not above enumerated.  Same in Michigan 5.62	5.62
Same in michigan  Aggregate length of tracks belonging to this company, computed as single track.  Same in Michigan  42.19	42.19
Gange of track, 4 feet, 84 inches.	

STATE OF OHIO, COUNTY OF CUYAROGA, \Bs.

Gauge of track, 4 feet, 814 inches.

D. W. Caldwell, president, and O. G. Getzen-Danner, secretary, of the Kalamasco & White Pigeon Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

D. W. CALDWELL, President.
O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.

(L. B.)

W. T. SMITH, Notary Public.

### OF THE

## NORTHERN CENTRAL MICHIGAN RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed January 20, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio.

Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio.

Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

### DIRECTORS.

- W. K. VANDERBILT, New York City.
- D. W. CALDWELL, Cleveland, Ohio.
- O. G. GETZEN-DANNER, Cleveland, Ohio.
- C. F. MITCHELL, Hillsdale, Mich.
- W. H. CANNIFF, Cleveland, Ohio.
- P. P. WRIGHT, Cleveland, Ohio.
- E. A. BILLINGS, Toledo, Ohio.
- H. A. WORCESTER, Hillsdale, Mich.
- R. A. MONTGOMERY, Lansing, Mich. Terms expire when their successors are elected.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 12, 1866.
Number of stockholders at date of last election: 10.
Number of stockholders in Michigan at same date: 3 individual stockholders and L. S. & M. S. R'y Co.
Amount of full paid stock held in Michigan at same date: 3 shares in addition to stock held by L. S. & M. S. R'y Co.
Date of annual meeting of stockholders: Third Wednesday in June.
Fiscal year of company ends: December 31.
General offices of the company are located at Cleveland, Ohio.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association	\$600,000 00
Total amount paid in, as per books of the company	
Paid in per mile of road owned by company, 61.14 miles	9,977 12

## ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DERT.

First mortgage, 8%, due in 1903. All owned by L. S. & M. S. R'y Co.

### RECAPITULATION.

Total funded debt, authorized, but not issued	\$1,525,000 00 24,942 75
Total amount of stock and debt	2,185,000 00
INTEREST ON THE FUNDED DEBT.	
What is the amount of same due each year	\$122,000 00
COST OF ROAD AND EQUIPMENT.	

Total cost for construction and equipment of road, and branches built by company.

Total expended for construction	\$1,357,000 00 22,195 00
Proportion of cost of construction for Michigan	1,357,000 00

## DESCRIPTION OF ROAD.

MAIN LINE.	Miles.	Miles.
Length completed in Michigan	61.14	•
Total length of road belonging to this company	61.14	61.14
Aggregate length of sidings, spurs, and other tracks not above enumerated	8.39	
Aggregate length of tracks belonging to this company, computed as single track. Gauge of track, 4 feet 8½ inches.		69.53

STATE OF OHIO, COUNTY OF CUYAHOGA, }88.

D. W. Caldwell, president, and O. G. Getzen-Danner, secretary, of the Northern Central Michigan Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

D. W. CALDWELL, President.

O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.

W. T. SMITH, Notary Public.

### OF THE

## STURGIS, GOSHEN & ST. LOUIS RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed January 20, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, D. W. CALDWELL, Cleveland, Ohio. Secretary, O. G. GETZEN-DANNER, Cleveland, Ohio. Treasurer, O. G. GETZEN-DANNER, Cleveland, Ohio.

## DIRECTORS.

C. VANDERBILT, New York City.
W. K. VANDERBILT, New York City.
D. W. CALDWELL, Cleveland, Ohio.
E. D. WORCESTER, New York City.
W. H. CANNIFF, Cleveland, Ohio.
P. P. WRIGHT, Cleveland, Ohio.
O. G. GETZEN-DANNER. Cleveland, Ohio.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 29, 1889. Number of stockholders at date of last election: 8 Number of stockholders in Michigan at same date: None. Amount of full paid stock held in Michigan at same date: None. Date of annual meeting of stockholders: First Wednesday in June. Fiscal year of company ends December 31. General offices of the company are located at Cleveland, Ohio.

## REMARKS.

The Sturgis, Goshen & St. Louis Railroad was acquired by the L. S. & M. S. Ry. Co., as of December 1, 1889, and is operated by that company as a proprietary road.

The entire capital stock, \$300,000, was turned over to the L. S. & M. S. Ry. Company, for which that company guaranteed the payment of the bonded debt of \$322,000; 100-year 3% bonds and interest.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		\$100 00	\$2,000,000 00
Number of shares issued	8,000	*	

## ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
First mortgage	3%	1989	New York City	\$322,000 0
	RCAPITUI	ATION.		
Total funded debt				\$322,000 00 11,386 00 822,000 00
INTERES	ON THE	FUNDED DEBT.		
What is the amount of same due each year.		· · · · · · · · · · · · · · · · · · ·		\$9,680 0
Was it paid for the last year? Yes.				
D ESC	RIPTION	OF ROAD.		
Length completed in MichiganLength completed in Indiana	MAIN L		Miles 8.00 25.20	2
Total length completed				. 28.2
Total length of road belonging to this comp Total length of road belonging to this comp Aggregate length of sidings, spurs and other Same in Michigan Aggregate length of tracks belonging to this Same in Michigan	compani	ot above enumera		2.3

# STATE OF OHIO, COUNTY OF CUYAHOGA, \ 88.

D. W. Caldwell, president, and O. G. Getsen-Danner, secretary, of the Sturgis, Goshen & St. Louis Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

D. W. CALDWELL, President.
O. G. GETZEN-DANNER, Secretary.

Subscribed and sworn to before me this 12th day of January, A. D. 1897.

W. T. SMITE, Notary Public.

OF THE

## LIMA NORTHERN RAILWAY COMPANY.

For the year ending December 31, 1996.

[Filed May 1, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, J. B. MEGUNE, Cincinnati, Ohio.

Pice President, H. L. BURNETT, New York, N. Y.

Secretary, W. C. BROWN, Lima, Ohio.

Auditor, E. B. HATHAWAY, Lima, Ohio.

General Manager, C. H. ROSER, Lima, Ohio.

Superintendent, G. R. HASKELL, Lima, Ohio.

Chief Engineer, C. H. ROSER, Lima, Ohio.

General Passenger Agent, F. E. FISHER, Springfield, Ohio.

General Freight Agent, C. A. BARNAW, Springfield, Ohio.

General Counsel, W. B. BICHIE, Lima, Ohio,

## DIRECTORS.

J. R. MEGUNE, Cincinnati, Ohio.
H. L. BURNETT, New York City.
E. L. OPPEMEIM, New York City.
C. E. BEOADHEAD, Edgewater, N. J.
J. B. TOWMSEND, Lima, Ohio.
M. DONNELLY, Napoleon, Ohio.
A. A. PURMAN, Ft. Wayne, Ind.
GEO. H. SMITH, Chillicothe, Ohio.
EMERY LATTAMER, Bryan, Ohio.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 27, 1895. Date of annual meeting of stockholders: First Monday in July. Fiscal year of company ends June 30. General offices of the company are located at Lima, Ohio.

## REMARKS.

The Detroit & Cincinnati Railway Company's track in Seneca township, Lenawee county, Michigan, commencing at State line in section 2 (connecting with the Lima Northern Railway), and extending northward to a connection with the Wabash Railway, in Seneca township, Lenawee county, Michigan, a distance of about six and one half miles, was purchased by the Lima Northern Railway Co. July 6, 1896.

## ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association			42,400,000 00
Par value of shares issued	24.000	\$100 00	
Paid in (nothing)	,		
	=		

## ANALYSIS OF DEBT ACCOUNTS.

Class, character and date of issue.		When due.	Whe	re payable.	Amount outstanding.
First mortgage bonds (50 years)	•	1945	New	York	\$1,200,000 00
ANALYSIS OF EARNINGS		N STATE OF M	CHIG	AN.	
Main line and branches: Local fares Through fares				\$165 50 15 60	}
Total passenger fares				\$181 10	)
Express and baggage				800 00	)
Total passenger department earnings					\$481 10
Per train mile Per mile of road				\$0 34 30 06	
FREIGHT	r eaf	NINGS.			
Main line and branches : Local traffic	<b></b> .				•
Total freight department earnings			<u>-</u>	· · · · · · · · · · · · · · · · · · ·	1,840 25
Per train mile Per mile of road				\$2 92 115 11	 
DESCRIPTI Date when the road was opened for use between i From State Line to Junction Wabash R'y, July From Junction to Adrian, Wabash track, July 2					
MAI	N LI	NE.			
In Michigan, from State Line to Junction In Ohio, from Lima to Michigan State Line			<del></del>	Miles. 6.4 71.8	<b>,</b>
Total length completed		***			78.2
Total length of road belonging to this company Total length of road belonging to this company in Aggregate length of sidings, spurs and other track	Micks no	higan t above enumers	ited		78.2 6.4 1,050 feet.
Gauge of track, 4 feet 8½ inches.					
Proprietary or leased roa	id <b>s</b> op	perated by this co	mpanı	<i>j</i> .	
Trackage over Wabash from Junction to Adrian	٦.				
Number of bridges a	ınd tr	restles in Michigo	ın.		Feet.
Wooden treatles, one					484
Crossings.—Rai	ilroad	l and highway.			
What railroads cross your road at grade in this S Fayette Branch L. S. & M. S. R. R. at 2½ miles v	tate, west	and at what loca	lity?		

## Stations.

Number of stations on whole line			16 1
Fencing in Michigan.			
How many miles of fencing have you? Posts up.			
Give the number of miles required to complete fence both sides of train which needed:  About 10 miles, all in Lenawee county.	ack in Mic	higan and	the counties
Road bed and track.			
Number of track sections in Michigan.  Average length of section (miles).  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.  New rails put in track, (all) 60 lb. steel.			11.100
ROLLING STOCK.			<b>.</b>
			Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tend			
Number of passenger cars—8 wheel, including official cars			
Number of passenger cars equipped with power brakes			
What patterns of power brakes have you in use? Westinghouse.			
How are your passenger cars heated? One train, 3 cars, steam. One train, 6 cars, stoves.			
MILEAGE, TRAFFIC, ETC.	B	antire line.	In Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year		52,800 4,400	
Miles run by mixed trains		31,680	
Total mileage of trains earning revenue		88,880	14,844
Passenger traffic.—Entire lines.			
<del>_</del>	umbers.	Miles.	Rate.
Number of through passengers carried earning revenue Number of local passengers carried earning revenue	925 27,807		
Total number of passengers carried earning revenue	28,732		
Average distance carried		27.7	\$0.82 .012
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers			.01 .011
Passenger traffic.—In State of Michi	jan.		
N S	umbers.	Miles	Rate.
Number of through passengers carried earning revenue  Number of local passengers carried earning revenue  Total number of passengers carried earning revenue	49 522 8,352		
Average distance carried		14.6	
Average amount received from each passenger.  Average receipts per mile for through passengers.			.02
Average receipts per mile for local passengers.  Average receipts per mile per passenger for all passengers			.015 .017
40			

## Freight traffic.—Entire lines.

No. 1. The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o	Tons.	Miles.	Rate.
Number of tone of through freight carried earning revenue  Number of tone of local freight carried earning revenue	68,433 8,706		
Total tons of freight carried earning revenue	72,1 <b>39</b>		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile		4,920 9,938 266,784	
Average ton haul for through freight.  Average ton haul for local freight.  Average ton haul for all freight.		13 9 5	
Average amount received for each ton haul.  Average receipts ton per mile for through freight.  Average receipts ton per mile for local freight.  Average receipts ton per mile for all freight.			\$0.28 .016 .048 .052
Freight traffic—In State of Michig	jan		
	Tons.	Miles.	Rate.
Number of tons of through freight carried earning revenue  Number of tons of local freight carried earning revenue	9,062 897		
Total tons of freight carried earning revenue	9,959		
Total mileage of through freight Total mileage of local freight Total freight mileage or tone carried one mile		708 679 <b>29</b> ,643	
Average ton haul for through freight.  Average ton haul for local freight.  Average ton haul for all freight.		13 10 8	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile for all freight.			\$0.18 .012 .081 .022

## FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

## Company's material excluded.

	Freight originating			Total freight tonnage.	
Commodity.	on this road. roads and	Whole tons.	Per cent.		
Products of agriculture: Grain	8,000 9,000 15 8	1,000	9,000 9,000 100 8		
Products of animals: Live stock. Poultry, game and fish	1,000 6 6	100 66	1,100 72 6		
Products of mines: Anthracite coal Bituminous coal Ores Stone, sand and other like articles Salt		800 84,444 2,500 5 4	300 34,444 2,500 14 4		
Products of forest: Lumber Logs and shingles	2,500	8,000	8,000 2,500		
Manufactures: Petrolsum and other cils. Lron, pig and bloom Cement, brick, and lime. Agricultural implements. Household goods and furniture.  Merchandise	26 20	150 150 290 5	8,240 150 176 290 25		
Total tonnage	28,830	43,309	72,139		

## FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

### Company's material excluded.

	Freight received from connecting on this road. Whole tons.	received from	Total freight tonnage.	
Commodity.		Whole tons.	Per cent.	
Products of agriculture : Hay Fruit and vegetables. Potatoes	200 15	85 8	200 100 8	
Products of animals: Live stock. Poultry, game and fish.		2 81	2 31	
Products of mines: Anthracite coal. Bituminous coal. Ores		116 7, <b>296</b> 10	116 7,296 10	
Products of forest: LumberLogs		50 41	50 291	
Manufactures: Petroleum and other oils		150 100 5	1,600 150 100 5	
Total tonnage	2,065	7,894	9,959	

## ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

National.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 78.2 miles. Western Union.

STATE OF OHIO, COUNTY OF ALLEN, 88.

E. B. Hathaway, auditor, of the Lima Northern Railway Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

E. B. HATHAWAY, Auditor.

Subscribed and sworn to before me this 30th day of April, A. D. 1897.
[L. s.]

R. B. TARAN,

Notary Public, Allen Co., Ohio.

OF THE

## LOWELL & HASTINGS RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed May 1, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

General Manager, M. L. SWEET, Grand Rapids, Mich. Secretary and Treasurer, McGEORGE BUNDY, Grand Rapids, Mich. Auditor and Traffic Manager, W. H. CLARK, Lowell, Mich.

### DIRECTORS.

M. L. SWEET, Grand Rapids, Mich.
H. J. HOLLISTER, Grand Rapids, Mich.
MCGEORGE BUNDY, Grand Rapids, Mich.
WM. WINEGAR, Grand Rapids, Mich.
GEO. H. TUXBURY, Hart, Mich.
Terms expire when successors are elected.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 6, 1887.

Number of stockholders at date of last election: 7.

Number of stockholders in Miehigan at same date: 7.

Date of annual meeting of stockholders: June 3.

Fiscal year of company ends: Calendar year.

General offices of the company are located at Grand Rapids and Lowell.

Debit. Credit.	•
Total earnings from operation \$11,135 Total expenses, including taxes \$10,634 49	51
Net income or deficit.	02
Balance for the year	02
Balance (profit and loss) last year2,661	l <b>7</b> 8
Balance forward to next year \$3,136	3 75

	ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or Par value of shares	articles of association \$100 00	<b>\$200,000 00</b>
Number of shares issped Amount paid in on common	1,895	•
Total amount as per books of	the company	190,120 00
Per mile of road owned by compar	ny, 12½ miles	15 <b>,209 6</b> 0
•	ANALYSIS OF DEBT ACCOUNTS.	
	UNFUNDED DEST.	
For what incurred.	Is the same to be funded or how liquidated?	Amount.
For construction		\$38,905 00
Total unfunded debt		\$38,905 00
	RECAPITULATION.	
		\$88,905 00
-	e of road, 12% miles	8,112 40
Total amount of stock and debt Stock and debt per mile of road, 1	12½ miles	\$229,025 00 18,822 00
G	ENERAL BALANCE SHEET.—Dr.	
Real estate	}	\$219,120 00
		1,000 00
_	<b>\$8,905</b> 00	<b>\$229,</b> 025 00
	•	
•	GENERAL BALANCE SHEET.—Cr.	
Capital stock		\$190,120 00
Notes payable		88,905 00
Total		\$229,025 00
c	OST OF ROAD AND EQUIPMENT.	
Total cost for construct	ion and equipment of road and branches built by compan	
Total expended for construction a Average cost per mile of road (no Proportion of cost for Michigan	and equipment t including sidings), 12% miles	\$228,025 00 18,822 00 228,025 00
	Purchased by present company.	
Original cost to present company. Total cost to date of report Average cost per mile of road (no	, of road and equipmenttincluding sidings), 12½ miles	\$228,025 00 228,025 00 18,822 00

## ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.

Main line and branches:   \$2,854 00	· ·		
Total passenger fares   \$2,554 00	Main line and branches:		
Mails		\$2,854 00	
Mails	Total passenger fares	\$2,854 00	
Total passenger department earnings	Express and baggage Mails Other sources	547 84	
Per train mile			\$8,649 02
Main line and branches:	•		•
Main line and branches   17,490 49   10   10   10   10   10   10   10   1	Per mile of road.		
Total traffic			
Total traffic	Main line and branches:	\$7,490 49	
Per train mile	•		
Per mile of road	Total freight department earnings		7,490 49
Per mile of road	Per train mile.	80 87	
Total earnings per train miles   56	Per mile of road	599 24	11,189 51
Total earnings per train miles   56	Transportation earnings per mile of road  Transportation earnings per train mile	891 16 56	·
Total earnings per train miles   11,139 51	Total earnings from operation of road	901 18	11,139 51
Total income from all sources   \$11,139 51	Total earnings per train mile	56	
ANALYSIS OF EXPENSES.	Proportion of taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan	891 16	11,189 51
ANALYSIS OF EXPENSES.    MAINTENANCE OF WAY AND STRUCTURES.	Total income from all sources		\$11,139 51
MAINTENANCE OF WAY AND STRUCTURES.   1,782 58   1,165 00	Proportion of income for Michigan,		11,139 51
Total	MAINTENANCE OF WAY AND STEUCTURES.		
Total	Repairs of roadway		\$1,762 58 1.165 00
MAINTENANCE OF EQUIPMENT.   \$350 00   Repairs and renewals of locomotives   50 00   Repairs and renewals of passenger cars   50 00   Repairs and renewals of freight cars   66 27   Total   \$466 27   Total   \$466 27   Total   \$1,800 00	•		
Repairs and renewals of locomotives   \$350 00	10041		=======================================
Repairs and renewals of passenger cars   50 00	MAINTENANCE OF EQUIPMENT.		
Conducting Transportation.   St.800 00	Bepairs and renewals of locomotives.  Bepairs and renewals of passenger cars.  Bepairs and renewals of freight cars.		50 00
Ringine and roundhouse men   \$1,800 00			\$466 27
Ringine and roundhouse men   \$1,800 00			
True   for locomotives			** *** **
Other supplies for locomotives   21 00	Fuel for locomotives		\$1,800 00 1.182 60
Train service	Oil, tallow and waste for locomotives		140 00
Station supplies	Train service		1.070 00
Station supplies	Train supplies and expenses	••••••	100 00 2.112 00
## Company   254 25    Total	Station supplies		115 40
GENERAL EXPENSES.  Other expenses	Other expenses		254 25
Other expenses	Total		<b>86,995 25</b>
	General Expenses.		
Total \$275 89	Other expenses		
			83,63 241 76

	Per cent of expenses.	!
Maintenance of way and structures	.27	\$2,927 58
Maintenance of equipment	.04	486 27 6,995 25
Conducting transportation	.66 .03	275 39
Total operating expenses and taxes		\$10,664 49
Operating expenses and taxes per mile of road		\$853 16
Total proportion of expenses for Michigan		10,664 49
Percentage of expenses to earnings	96.	00
Net earnings per mile of road	<b>\$38</b> 00	03
Met earnings ber train mine	•'	
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Lowell to Freeport, December, 1887.		
MAIN LINE.		
RAIN MINE.	Miles.	Miles.
In Michigan, from Lowell to Freeport	12.50	
Total length completed		12.50
Total length completed		12.00
Branches.		
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated.	1.00	
Aggregate length of tracks in Michigan belonging to this company, computed track.	as single	13.50
Gauge of track, 4 feet 81/2 inches.		
Number of bridges and trestles in Michigan.	Number.	Aggregate length feet.
Wooden bridges	10	670
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State and at what locality? Detroit, Lansing & Northern R. R. at Elmdale. Detroit, Grand Haven & Milwaukee R. R. at Lowell.		
At what crossings are interlocking and derailing switches in operation?  Elmdale and Lowell.		
What pattern or patterns have you adopted? Gravitt. Allentown.		
Number of crossings of highways at grade in this State: 17.		
Are your frogs and guard rails blocked as required by act 174, Session Laws of 188 Yes.	37	
How are they treated? Blocked with wood. Stations.		
		•
Number of stations on whole lines. Same in Michigan		3
Employés.		
Number of persons regularly employed on all roads operated by company, including Same in Michigan.	gofficials	15 15
Classify your employés as per following list:		Number.
Brakemen. Conductors		1
Engineers		1
Firemen		1 4 1
LaborersShopmen.		
Others		6

## REPAIRS AND RENEWALS.

## Fencing in Michigan.

How many miles of fencing have you?	22
Give the number of miles required to complete fence both sides of your track in Michigannies in which needed:	- '
Kent	8
Total miles required	8
Road bed and track.	
N. A. A. A. A. A. Martin and M. M. Martin and M. M. M. M. M. M. M. M. M. M. M. M. M.	
Number of track sections in Michigan	1.1214
Average number of men in each section gang	4
Number of new ties put in whole line during the year	5,600
Number of new ties put in track in Michigan	5,600
Average number of new ties per mile of road.	448
ROLLING STOCK.	Present esti-
	mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender 2	
Total2	\$6,000 00
_	
Number of combintion cars—8-wheel, including official cars	\$1,500 00
Number of platform cars	1,500 00
Total	\$3,000 00
Number of locomotives equipped with power brakes	1 1
What patterns of power brakes have you in use, and number of locomotives and cars with	each?
Westinghouse.	
Are your freight cars being equipped with automatic couplers as required by act No. 147. of 1885, as amended by act No. 88, session laws of 1887? Yes.	, session laws
What pattern or patterns have you adopted for use? M. C. B. Janney.	
How are your passenger cars heated? Baker heater.	

## MILEAGE, TRAFFIC, ETC.

Train mileage.  Miles run by mixed trains		· · · · · · · · · · · · · · · · · · ·	All in Michigan.
Passenger traffic.—Road all in State of 1	lichigan.		
Number of local passengers carried, earning revenue	Number. 15,900	Miles.	Rate.
Total number of passengers carried, earning revenue	15,900		
Number of passengers carried one mile	111,300		
Average distance carried  Average amount received from each passenger  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Estimated cost of carrying each passenger one mile			\$0 18 02.57 02.57 05

## Freight traffic.—Road all in State of Michigan.

Number of tons of local freight carried, earning revenue	Tons. 18,543	Miles.	Rate.
Total tons of freight carried, earning revenue	18,543		
Total mileage of local freight.		20,000	
Total freight mileage or tons carried one mile		94,801	
Average ton haul for local freight		7	
Average ton haul for all freight		7	
Average amount received for each ton haul.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight  Estimated cost of carrying one ton one mile.		·	\$0 55 07.8 07.8 10

## FREIGHT TRAFFIC MOVEMENT .- ROAD ALL IN STATE OF MICHIGAN.

## Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage		Total freight tonnage	nt tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.		
Products of agriculture:				<del></del>		
Grain	1,009		1,009	7.45		
Flour	1,550		1,550	11.44		
Other mill products	290 180		290 180	2.14 1.48		
Hay Fruit and vegetables	660		660	4.87		
Potatoes	1.200		1.200	8.86		
I 044.000	1,200		1,200	0.00		
Products of animals:						
Live stock Poultry, game and fish	793		793	5.85		
Poultry, game and fish	80		80	.59		
Wool	101		101	.74		
Products of mines: Anthracite soal Bituminous coal Salt			540 428 72	3.96 3.12 .53		
Products of forest:	1					
Lumber	910	1,960	2,870	21.17		
Shingles		50	50	.87		
Manufactures:			400			
Cement, brick and lime Agricultural implements			100	.74		
Wines lieners and beers		. 112 30	112 30	.88		
Agricultural implements Wines, liquors and beers Household goods and furniture	20	22	42	.22 .31		
Merchandise	1	1,602	2.612	19.26		
Miscellaneous: Other commodities not mentioned above	219	610	829	6.12		
Total tonnage	8,022	5,521	18,548	100		

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies ruu on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express.

One and one-half and one and one-tenth first-class freight rates; takes freight at depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 12½ miles; belongs to this company.

STATE OF MICHIGAN, ss. County of Kent,

McGeorge Bundy, secretary and treasurer of the Lowell & Hastings Railroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

Signed,

[L. S. OF R. R.]

McGEORGE BUNDY.

Subscribed and sworn to before me this 30th day of April, A. D. 1897.

ZENA SLATTON, Notary Public, Kent Co., Mich.

OF THE

## MANISTEE & GRAND RAPIDS RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed April 30, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JOHN CANFIELD, Manistee, Mich. Vice President, LOUIS SANDS, Manistee, Mich. Secretary, T. J. RAMSDELL, Manistee, Mich. Auditor, E. N. SALLING, Manistee, Mich. Treasurer, E. G. FILER, Filer City, Mich. General Manager, JOHN CANFIELD, Manistee, Mich. Superintendent, WM. H. HERBERT, Manistee, Mich. Assistant Auditor, H. W. MARSH, Manistee, Mich. Chief Engineer, E. W. MUENSCHER, Manistee, Mich. Cashier, H. W. MARSH, Manistee, Mich. General Freight Agent, H. W. MARSH, Manistee, Mich. Attorney, T. J. RAMSDELL, Manistee, Mich.

## DIRECTORS.

E. G. FILER, Filer City, Mich.
JOHN CANFIELD, Manistee, Mich.
E. N. SALLING, Manistee, Mich.
JAMES DEMPSEY, Manistee, Mich.
R. B. BLACKER, Manistee, Mich.
LOUIS SANDS, Manistee, Mich.
T. J. RAMSDELL, Manistee, Mich.
Terms expire January 19, 1898.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 11, 1839.
Number of stockholders at date of last election: 8.
Number of stockholders in Michigan at same date: 8.
Amount of full paid stock held in Michigan at same date: 50 shares.
Date of annual meeting of stockholders: Third Wednesday in January.
Fiscal year of company ends December 31.
General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$85,049 89
Net income		\$9,895 10
Balance applicable to dividends.		\$9,895 10
Balance for the year		\$9,895 10
Balance, profit and loss last year		\$83,806 12
Balance forward to next year		\$93,001 22

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association.		\$1,000,000
Amount authorized by charter or articles of association Par value of shares \$100 00 Number of shares issued 50 Amount paid in on common Amount paid in on shares not issued (number), 5,000.	\$5,000 00 445,000 00	
Total amount paid in, as per book of the company		450,000 00
Paid in per mile of road owned by company, 44.71		10,067 10
•		
ANALYSIS OF DEBT ACCOUNTS.		
Total amount of stock and debt		\$450,000 00 10,067 10
GENERAL BALANCE SHERT.—Dr.		
Construction account	8452 148 42	
Equipment account.	\$452,148 42 50,251 40	
Other investments (specifying same):		
Fence account	2,070 29 633 22	
Fence account	633 22 18,337 70 887 95	
Cash items:		524,328 98
•	\$3,427 22 5,409 85	
Cash Bills receivable	5,409 85	8,887 07
Other assets:  Materials and supplies	en 790 49	
Insurance unearned	\$9,729 43 805 74	10,035 17
Total		\$543,201 22
GENERAL BALANCE SHEET.—Cr.		
Capital stock	· · · · · · · · · · · · · · · · · · ·	\$450,000 00 98,201 22
Profit and loss or income accounts		
Total.		\$548,201 22
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches buil	t by compan	y.
Total expended for construction and equipment		\$504,470 11 11,288 16
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
MAIN LINE.		
Extensions and new sidings.		\$59,042 59
New fences		596 59 687 10
Machinery and tools		1,058 25
Total charges.		\$60,326 28
Total charges to property account as above		60,326 28 1,058 25 59,268 03

## ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.

PASSENGER BARNINGS.	
Main line and branches: Local fares	1
Total passenger fares	
Total passenger department earnings	\$1,042 42
Per train mile	
FREIGHT EARNINGS.	
Main line and branches:       \$32,405 85         Local traffic       \$32,405 85         Through traffic       1,426 78	
Total traffic \$38,332 63	}
Total freight department earnings	\$33,882 63
Per train mile         \$1.56           Per mile of road         756.71	
Total transportation earnings, entire line	\$84,875 05
Transportation earnings per mile of road \$780 02 Transportation earnings per train mile 1 62	
Miscellaneous receipts from operating account, other than for transporta- tion, as follows:	
From car mileage balance. 3 84 From switching charges balance 171 00	
Total	35,049 89
Total earnings from operation of road	
Total income from all sources. Proportion of income for Michigan, 100%.	\$35,049 89
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway Renewals of ties Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixures Repairs and renewals of docks and wharves. Other expenses	\$5,991 54 2,076 76 67 21 18 98 639 89 81 48 239 53
Total	9,115 39
MAINTENANCE OF EQUIPMENT.	
Repairs and renewals of locomotives.  Repairs and renewals of freight cars  Other expenses.	\$1,870 80 1,482 06 62 01
Total	\$8,414 87
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Switchmen, flagmen and watchmen Loss and damage Stationery and printing Other expenses	2,302 81 263 59 178 26 30 40 1,457 99 500 62
Total	\$8,493 97

GENERAL EXPENSES.	
Salaries of clerks and attendants	. \$840.00
troparal omos axpenses and supplies	141 381
Insurance. Stationery and printing (general offices).	567 01
Stationery and printing (general offices)	. 67 82
Taxes	_ 2,514 88
Total	\$4,130 56
***************************************	- 42,200 00
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures	. \$9,115 89
Maintenance of equipment	8.414.87
Conducting transportation General expenses, including taxes.	8,414 87 8,493 97
General expenses, including taxes	4,130 56
Total operating expenses and taxes	. \$25,154 79
Operating expenses and taxes per train mile run, for trains earning revenue.	
Operating expenses and taxes per train mile run, for trains earning revenue,  21,477 miles	. \$1 17
Total proportion of expenses for Michigan	25,154 79
Percentage of expenses to earnings	7
Net earnings per mile of road	. 221 82 - 46
Net earnings per train mite	
DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Manistee, Mich., to C. & W. M. Junction, Dec. 20, 1892. From C. & W. M. Junction to Sec. 9, T. 19 R. 11 W, July 1, 1898.	
MAIN LINE.	
In Michigan, from Manistee to Canfield Junction	. 44.71
In Michigan, from Manistee to Canfield Junction	44.71
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan  44.7	44.71
In Michigan, from Manistee to Canfield Junction.  Total length completed Total length of road belonging to this company in Michigan 44.7 Aggregate length in Michigan of sidings, spurs and other tracks not above	44.71 44.71
In Michigan, from Manistee to Canfield Junction.  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  13.5	44.71
In Michigan, from Manistee to Canfield Junction.  Total length completed Total length of road belonging to this company in Michigan 44.7 Aggregate length in Michigan of sidings, spurs and other tracks not above	44.71
In Michigan, from Manistee to Canfield Junction.  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single	44.71
In Michigan, from Manistee to Canfield Junction.  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.	44.71
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 4 feet 8½ inches.	44.71
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 4 feet 8½ inches.  If north of parallel 44 of latitude. Yes.  Give date road commenced to be built:	44.71
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	44.71
In Michigan, from Manistee to Canfield Junction  Total length completed.  Total length of road belonging to this company in Michigan	44.71
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  If north of parallel 44 of latitude. Yes.  Give date road commenced to be built: December 18, 1889.  Give date road commenced to be operated: May 1, 1892.  Where built from and to.	44.71
In Michigan, from Manistee to Canfield Junction.  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 4 feet 8½ inches.  If north of parallel 44 of latitude. Yes.  Give date road commenced to be built: December 18, 1889.  Give date road commenced to present terminus: July 1, 1896.  Give date road commenced to be operated: May 1, 1892.  Where built from and to. Manistee, Mich., to Sec. 9, Town 19 Range 11 West, Lake Co., Mich.  Give exact number of miles:	44.71
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  If north of parallel 44 of latitude, Yes.  Give date road commenced to be built: December 18, 1889.  Give date road commenced to present terminus: July 1, 1896.  Give date road commenced to be operated: May 1, 1892.  Where built from and to. Manistee, Mich., to Sec. 9, Town 19 Range 11 West, Lake Co., Mich.  Give exact number of miles: 44.71 miles.  Number of bridges and trestles in Michigan.	44.71 1 2 2 59.23
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 4 feet 8½ inches.  If north of parallel 44 of latitude. Yes.  Give date road commenced to be built: December 18, 1889.  Give date road commenced to present terminus: July 1, 1896.  Give date road commenced to be operated: May 1, 1892.  Where built from and to. Manistee, Mich., to Sec. 9, Town 19 Range 11 West, Lake Co., Mich.  Give exact number of miles: 44.71 miles.  Number of bridges and tresties in Michigan.	44.71 2 - 59.28 - Aggregate Length, feet.
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  If north of parallel 44 of latitude. Yes.  Give date road commenced to be built: December 18, 1889.  Give date road completed to present terminus: July 1, 1896.  Give date road commenced to be operated: May 1, 1892.  Where built from and to. Manistee, Mich., to Sec. 9, Town 19 Range 11 West, Lake Co., Mich.  Give exact number of miles: 44.71 miles.  Number of bridges and trestles in Michigan.	44.71  44.71  2  58.23  Aggregate Length, feet.
In Michigan, from Manistee to Canfield Junction.  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  If north of parallel 44 of latitude. Yes.  Give date road commenced to be built: December 18, 1889.  Give date road commenced to present terminus: July 1, 1896.  Give date road commenced to be operated: May 1, 1892.  Where built from and to. Manistee, Mich., to Sec. 9, Town 19 Range 11 West, Lake Co., Mich.  Give exact number of miles: 44.71 miles.  Number of bridges and trestles in Michigan.  Number.  Wooden bridges.	Aggregate Length, feet.
In Michigan, from Manistee to Canfield Junction  Total length completed Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  If north of parallel 44 of latitude. Yes.  Give date road commenced to be built: December 18, 1899.  Give date road completed to present terminus: July 1, 1896.  Give date road commenced to be operated: May 1, 1892.  Where built from and to. Manistee, Mich., to Sec. 9, Town 19 Range 11 West, Lake Co., Mich.  Give exact number of miles: 44.71 miles.  Number of bridges and trestles in Michigan.  Number.  Wooden bridges.  Combination bridges.	44.71  44.71  2  58.28  Aggregate Length, feet.

Crossings.—Railroad and highway.

\_\_\_\_

What railroads cross your road at grade in this State, and at what locality? C. & W. M. B. B. at Canfield, Mich. M. & L. B. R. at Sec. 14, T. 19 R. 12 West, Lake Co. G. R. & I. R. B. at Sec. 15, T. 19 R. 12 West, Lake Co.

What railroads cross your road el Under: F. & P. M. R. R. at Junction		our grade in this Si	ate, and where?	
At what crossings are interlockin C. & W. M. crossing at Canfield		hes in operation?		
What pattern or patterns have yo The Union Switch & Signal Con				
Number of crossings of highways	at grade in this Sta	te		82
	Station	a.		
Number of stations on whole line	98			2
	Employe	éa.		
Number of persons regularly empl	oyed on all roads oper	ated by company, i	ncluding officials	<b>88</b>
Classify your employés as per follo	-			Number.
Brakemen Conductors				2
Engineers Firemen				2 2 2 20
Laborers Shopmen				20 4 2 2
YardmenOthers				
	REPAIRS AND R	HWEWATA		
	Fencing in M			
How many miles of fencing have Estimated 18 miles. Give the number of miles require and the counties in which need 54.42 miles.	d to complete fence b	•	ack in Michigan,	
Number of track sections in Mich	igan			5
Average number of men in each a	ection gang			4
Average lengths of sections, miles Average number of men in each s Number of new ties put in whole Number of new ties put in track i Average number of new ties per n	in Michigan		}	18,091 170
Average number of new ties per i	and or road	•••••		
New bridges built during the yea	r—number, 1.			
Location.	Kind.	Material.	Month built.	feet in length.
Sec. 15, T. 19, R. 12, W., Little Manistee River, Lake Co	Trestle	Wood	August, 1896	75
	BOLLING 8	BTOCK.		
			Number. m	
Number of locomotives of more t				\$15,284 40
			2	\$15,284 40
Number of box freight cars Number of platform cars Number of conductors' way cars.			90	\$1,826 60 31,810 40 1,888 00
Total			96	\$50,251 40
Number of locomotive equipped	with power brakes		***************************************	2

What patterns of power brakes have you in use, and number of locomotive and cars with each? Westinghouse on locomotive.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Janney.

## MILEAGE, TRAFFIC, ETC.

Train mileage.	In Michigan.
Miles run by freight trains during the year	
Total mileage of trains earning revenue	21,477
Passenger traffic.—Road all in State of Michigan.	
Number of local passengers carried, earning revenue	Rate.
Total number of passengers carried earning revenue	
Number of passengers carried one mile. 45,676 Average distance carried 24.002	ı
Average amount received from each passenger.  Average receipts per passenger per mile for all passengers  Retinated cost of carrying each passenger one mile, all passengers carried in caboose as a matter of accommodation	. 02.4
Freight traffic.—Road all in State of Michigan.  Tons. Miles.  Number of tons of local freight carried, earning revenue	Rate.
Total tons of freight carried, earning revenue	
Total mileage of through freight 21,47	r
Total freight mileage or tons carried one mile	I
Average ton haul for through freight 254,677	r
Average ton haul for all freight 254,677	i
Average amount received for each ton haul	80 58

## FREIGHT TRAFFIC MOVEMENT .- ROAD ALL IN STATE OF MICHIGAN.

## Company's material excluded.

Commodity.	Freight originating on this road.	Freight re- ceived from connecting	Total freight tonnage.	
Commonty.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agricultural: Grain	138	16	154 17	.24
Flour Other mill products Hay Tobscoo Fruit and vegetables Potatoes	1 45	81	10 76 1 6	.02 .12 .00 .01
Products of animals: Dressed meats	13 7		18 7	.02 .01
Products of mines: Bituminous coal Stone, sand and other like articles Salt	32 30 170		82 30 170	.05 .05
Product of forest: Lumber. Logs, bark, posts and ties. Shingles.	299 59,568 15	3,734	63,299 63,297 15	.46 98.45 .02
Manufactures: Petroleum and other oils Sugar Iron and steel rails Wagons, carriages, tools, etc Household goods and furniture	8 6 1 4 5		3 6 1 4 5	.00 .01 .00 .01
Merchandise	36		86	.06
Miscellaneous: Other commodities not mentioned above	77		77	.12
Total tonnage	60,494	3,781	64,275	100

STATE OF MICHIGAN, COUNTY OF MANISTEE. 388.

John Canfield, president, and H. W. Marsh, assistant auditor of the Manistee & Grand Rapids Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

JOHN CANFIELD, President. H. W. MARSH, Asst. Auditor.

Subscribed and sworn to before me this 29th day of April, A. D. 1897.

[L. S.]

C. C. Young, Notary Public.

OF THE

## MANISTEE & NORTHEASTERN RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed April 26, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, EDWARD BUCKLEY, Manistee, Mich.

Pice President, WILLIAM DOUGLAS, Manistee, Mich.

Secretary (Acting), EDWARD BUCKLEY, Manistee, Mich.

Auditor, ROBERT PORTEOUS, Manistee, Mich.

Treasurer (Acting), EDWARD BUCKLEY, Manistee, Mich.

General Manager, EDWARD BUCKLEY, Manistee, Mich.

General Superintendent, WILLIAM DOUGLAS, Manistee, Mich.

Assistant General Superintendent, EDWARD McFADZEN, Manistee, Mich.

Chief Engineer, J. J. HUBBELL, Manistee, Mich.

General Passenger Agent, F. A. MITCHELL, Manistee, Mich.

General Freight Agent, F. A. MITCHELL, Manistee, Mich.

### DIRECTORS.

EDWARD BUCKLEY, Manistee, Mich.
WILLIAM DOUGLASS, Manistee, Mich.
CHARLES G. WILSON, Manistee, Mich.
ALBERT WILSON, Manistee, Mich.
T. J. ELTON, Manistee, Mich.
Terms expire January 7, 1897.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 7, 1887. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Date of annual meeting of stockholders: January 7th each year. Fiscal year of company ends December 31. General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		\$201,375 03
Total earnings from operation.  Total expenses, included taxes.	\$124,356 33	
Net income.		\$77,018 70
Interest on unfunded debt	\$74,517 98	
Balance for the year (profit)		2,500 75
Balance for the year (profit)	\$248, <b>264</b> 47	
Balance forward to next year		252,130 42

## ANALYSIS OF CAPITAL STOCK.

	ANALYSIS OF CAPITAL STOCK		
Amount authorized by charter or Par value of shares Number of shares issued Amount paid in on common	articles of association	\$525,765 97	\$2,000,000 00
	oooks of the company		525,765 97
Paid in per mile of road owned by	company, 90.50 miles		5,809 57
	ANALYSIS OF DEBT ACCOUNTS.		
	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liquid	lated?	Amount.
For construction. For equipment. For real estate For renewals. For miscellaneous For current balances.	To be paid		\$1,527,434 28
	RECAPITULATION.		
Total unfunded debt			\$1,527,484 28
Total debt liabilities			\$1,527,434 28
Amount of debt liabilities per mil	e of road, 90.50 miles		16,877 73 2,058,200 25
	90.50 miles		22,687 29
ſ	ENERAL BALANCE SHEETDr.		
_			\$1,478,699 27 198,182 95
Other investments:			
Real estate, etc.  Manistee driving park stock  North Side park stock		\$1,750 00 250 00	103,094 97 2,000 00
Cash items:			2,000 00
Cash Due from agents		\$27,236 15 5,479 88	32,716 03
Other assets:			,
Materials and supplies.  Debit balances from companies Balance	and individuals		10,268 75 5,168 08 252,180 42
	·	;	
, 6	ENERAL BALANCE SHEET.—Cr.		
Capital stock			\$525,765 97
Unfunded debt:	_		
Dividends unpaid	}	81,537,434 28	
Vouchers and accounts	)	24,050 17	4 994 404 4-
Total			1,551,484 45
TOM:	***************************************	••••••	\$2,077,250 42

## COST OF ROAD AND EQUIPMENT.

Total expended for construction and equipment.	\$1,774,977 19
Total expended for construction and equipment.  Average eost per mile of road (not including sidings), 90.50 miles.  Proportion of cost for Michigan.	19,618 00 19,618 00
rroportion of cost for intentigation.	19,010 00

CHARGES AND CREDIT	S TO PROP	ERTY DURI	NG THE	YEAR.	
	Extensions and new sidings.	New buildings.	New fences.	Machinery and tools.	Total.
Main line	2,798 97	\$308 85 }	\$103 91	\$449 72	\$972 54 4,986 00
Total charges	\$5,096 15	\$380 85	\$103 91	\$449 72	\$5,958 63
Total charges to property account as above Net addition to property account					\$5,958 68 5,958 68
ANALYSIS OF EARNING	S—KOAD AL SSENGER EAR		OF MIC	HIGAN.	
Main line and branches: Local fares Through fares				\$32,500 45 5,976 84	
Total passenger fares		• • • • • • • • • • • • • • • • • • • •		\$88,476 79	
Express and baggage				1,202 95 4,418 34	
Total passenger department earnings					44,098 08
Per train mile				\$0 41 608 50	
	BEIGHT BARN	INGS.			
Main line and branches: Local traffic Through traffic				145,879 05 10,812 27	
Total traffic				\$156,191 82	
Total freight department earnings					156,191 32
Per train mile			·	\$1 73 1,725 87	
Total transportation earnings, entire line Transportation earnings per mile of road, ? Transportation earnings per train mile Miscellaneous receipts from operating accition, sa follows:	0.50	han for trai	asporta-	2,213 14 1 01	\$200,289 40
From telegraph companies. From other sources, news agency and acc	ident ins.				819 38 266 25
Total					\$201,375 03
Total earnings from operation of road 25.  Total earnings per mile of road, 90.50 miles Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in 1	50 miles north of para	llel 44 of lati	tude		185,889 77 15,485 26 2,225 14 1 01 185,889 77 2,838 01
Total income from all sources				_	\$201,375 03

Proportion of income for Michigan

## ANALYSIS OF EXPENSES.

## MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway. Renewals of rails Renewals of trails Renewals of ties	\$19,749 28 25 75 6,677 10 227 78 248 52 708 60 147 44 124 99 \$27,909 46
MAINTENANCE OF EQUIPMENT.	
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger care. Repairs and renewals of freight cars. Stationery and printing. Other expenses	\$500 00 9,025 98 1,953 88 4,765 63 125 00 58 02
Total	\$16,428 46
CONDUCTING TRANSPORTATION.	
Superintendence  Engine and roundhouse men Fuel for locomotives Water supply for locomotives Ui, tallow and waste for locomotives Train service.  Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service. Station service. Station supplies Car mileage—balance Loss and damage Clearing wrecks. Stationery and printing Other expenses  Total	\$1,620 00 11,825 55 20,616 55 20,616 50 1,367 17 11,367 17 11,367 17 11,263 64 1,120 96 2,338 85 9,545 49 876 86 872 22 82 70 21 39 499 96 975 26
GENERAL EXPENSES.	
Salaries of general officers Salaries of clerks and attendants Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes.  Total	\$3,701 44 2,722 12 1,657 33 3,331 10 249 98 280 72 3,863 32
RECAPITULATION OF EXPENSES. Per cent of expenses.  Maintenance of way and structures 22.44 Maintenance of equipment 51.22 Conducting transportation 51.63 General expenses, including taxes 12.71  Total operating expenses and taxes 100.00	\$27,909 46 16,428 46 64,212 40 15,806 01
Total operating expenses and waxes	
Operating expenses and taxes per mile of road, 90.50 miles.  Operating expenses and taxes per train mile run, for trains, earning revenue, 198,469 miles  Proportion of operating expenses and taxes for Michigan, main line	\$1,874 10 62 124,856 33
Total proportion of expenses for Michigan	\$124,356 33
Percentage of expenses to earnings 61.8 Net earnings per mile of road	851 08 88.80

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Manistee, Mich., to Traverse City, Mich., July 1, 1892. Line opened as follows: Main Line— Manistee, Mich., to Onekama, Mich., January 14, 1889. Manistee, Mich., to Peters Camp, Mich., May 1, 1890. Manistee, Mich., to Lake Ann, Mich., October 13, 1890. Manistee, Mich., to Traverse City, Mich., July 1, 1892.	
MAIN LINE,	
In Michigan, from Manistee to Traverse City	Miles
Total length completed	70.76
BRANCHES.	
From Manistee, Mich., to Harbor         1.51           From Onekama Junction to Onekama         2.71           From Bear Creek to Canfield's Camp         8.00           From Maple Grove         4.00           From Solon to Cedar City         3.52	
Total length of branches owned by company	19.74
Total length of road belonging to this company in Michigan	90.50 21.00
Aggregate length of tracks in Michigan belonging to this company, computed as single track	111.50
Gange of track, 4 feet 8% inches.	
If north of parallel 44 of latitude? From Lake Ann, Mich., to Traverse City, Mich.	
Give date road commenced to be built: Oct. 1, 1891.	
Give date road completed: July 1, 1892.	
Give date road commenced to be operated: July 1, 1892.	•
Where built from and to: From Lake Ann, Mich., to Traverse City, Mich.	

Number of bridges and trestles in Michigan.

Wooden bridges, number of, 14; aggregate length, 600 feet.

Draw bridges in Michigan.

How many on your line? One.

Give exact number of miles: 17.86 miles.

Where located, when built and length of draw span? Manistee, Mich., January, 1889. Length of draw open 160 feet.

Character of structure? Howe truss.

Material of which constructed. Wood and iron.

Height above water, and depth of water under bridge. 12 feet; 14 feet.

How swung, by engine or hand power? Hand power.

Approaches straight or curved? Curved.

Do you require all trains to come to fall stop before crossing a draw, and how are they signaled? Yes. By Gravett derailing semaphore.

## Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality?  Flint & Pere Marquette R. R. at Manistee, Mich. C. & W. M. R. R. at Manistee Crossing, Mich. Ann Arbor R. R. at Copemish, Mich. Chicago & W. M. R. R. at Interlochen, Mich. Chicago & W. M. R. R. at Bear Creek Br. Crossing, Mich Chicago & W. M. R. R. at Traverse City, Mich.	
At what crossings are interlocking and derailing switches in operation? Flint & Pere Marquette R. B., Manistee, Mich. Chicago & W. M. R. R., Manistee Crossing, Mich. Chicago & W. M. R. R., Interlochen, Mich. Chicago & W. M. R. R., Bear Creek Br. Crossing, Mich.	
What pattern or patterns have you adopted? Gravett.	
Number of crossings of highways at grade in this State	60 1
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.	
How are they treated? Mostly wood, some with steel.  Stations.	
Number of stations on whole lines: 14 regular, and 7 flag stations.	•
Employés.	
Number of persons regularly employed on all roads operated by company, including officials	179
Classify your employés as per following list:	Number.
Baggagemen	2 11
Conductors	7
Bingineers Firemen Laborers	7 7 7 41 18 2 89
LaborersShopmen	41
Yardmen	2
Others	89
REPAIRS AND RENEWALS.	
Fen <u>ci</u> ng in Michigan.	
Fenging in Michigan.  How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	611/4
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	Miles.
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties  Manistee county  Benzie county	Miles. 44% 11
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties  Manistee county  Benzie county	Miles. 44½ 11 22
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county.  Benzie county.  Grand Traverse county.  Leelanaw county.	Miles. 44½ 11 22 12
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties  Manistee county  Benzie county	Miles. 44½ 11 22
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county Benzie county Grand Traverse county Leelanaw county  Total miles required  Road bed and track.	Miles. 44½ 11 22 12 89
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county.  Benzie county.  Grand Traverse county.  Leelanaw county.  Total miles required.  Road bed and track.  Number of track sections in Michigan.	Miles. 44½ 11 22 12
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county	Miles. 44½ 111 22 12 89
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county	Miles. 44½ 11 22 12 89 10 7 454,816
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county.  Benzie county.  Grand Traverse county.  Leelanaw county.  Total miles required.  Road bed and track.  Number of track sections in Michigan.	Miles. 44½ 111 22 12 89
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county	Miles. 44½ 11 22 12 89  10 7 4 54,816 54,316 600  Present esti-
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county	Miles. 44½ 111 22 12 89
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county  Benzie county  Grand Traverse county  Leelanaw county  Total miles required  Road bed and track.  Number of track sections in Michigan  Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties put in track in Michigan  ROLLING STOCK.  F  Number. n	Miles. 44½ 111 22 12 89 10 7 44 54,316 54,316 600 Present estinated value.
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county	Miles. 44½ 111 22 12 89  54,316 54,316 54,316 600  Present estimated value. \$43,670 52
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county	Miles. 44½ 111 22 12 12 89  54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 600
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county.  Bensie county.  Grand Traverse county.  Leclanaw county.  Total miles required.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.  ROLLING STOCK.  FOR INDUSTRIES.  Number of passenger cars—8-wheel, including official cars.  Number of passenger cars—8-wheel, including official cars.  Number of passenger cars—8-wheel, including official cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.  Sumpher of box freight cars.	Miles. 44½ 111 22 12 12 89  54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 600
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county.  Benzie county.  Grand Traverse county.  Leclanaw county.  Total miles required.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties per mile of road.  ROLLING STOCK.  Number. In  Number of locomotives of more than 30 tons weight, exclusive of tender.  8  Total.  8  Number of passenger care—8-wheel, including official cars.  5  Number of express and baggage cars.  2  Number of platform cars.  8  Number of platform cars.  8  Number of conductors' way cars.	Miles. 44½ 111 22 12 12 89  54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 243,670 52 43,670 52 43,670 52 43,670 52 16,514 2,617 20 76,495 02 2,035 86
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county.  Benzie county.  Grand Traverse county.  Leclanaw county.  Total miles required.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties per mile of road.  ROLLING STOCK.  Number. In  Number of locomotives of more than 30 tons weight, exclusive of tender.  8  Total.  8  Number of passenger care—8-wheel, including official cars.  5  Number of box freight cars.  8  Number of platform cars.  8  Number of platform cars.  9  Other cars.	Miles.  44½ 111 22 12 89  10 7 44 54,316 54,316 600  Present esti- nated value. \$43,670 52 \$43,670 52 16,514 49
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:  Manistee county.  Benzie county.  Grand Traverse county.  Leclanaw county.  Total miles required.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in track in Michigan.  Average number of new ties put in track in Michigan.  Average number of new ties per mile of road.  ROLLING STOCK.  Number. In  Number of locomotives of more than 30 tons weight, exclusive of tender.  8  Total.  8  Number of passenger care—8-wheel, including official cars.  5  Number of express and baggage cars.  2  Number of platform cars.  8  Number of platform cars.  8  Number of conductors' way cars.	Miles. 44½ 111 22 12 12 89  54,316 54,316 54,316 54,316 54,316 54,316 54,316 54,316 243,670 52 43,670 52 43,670 52 43,670 52 16,514 2,617 20 76,495 02 2,035 86

All in

Number of passenger-train cars equipped with power brakes 7
Number of freight cars equipped with power brakes 1

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse air brakes: 6.
American steam brakes: 2.
Box cars, Westinghouse air brakes: 1.
Passenger cars, Westinghouse air brakes: 7.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use?

Dowling, M. C. B. and Gould. Draw head coupler.

How are your passenger cars heated.

Combination Baker heater, with McElroy steam heat, Consolidated Heating Co's system.

### MILEAGE, TRAFFIC, ETC.

### BOAD ALL IN STATE OF MICHIGAN.

## Train mileage.

			All in Michigan.
Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains Total mileage of trains earning revenue. Five work trains			104,806 87,111 6,552 198,469 4,724
Grand total train mileage			208,193
Duran an Anath			
Passenger traffic.	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue	8,168 66,467	<b>A</b> 1100.	maw.
Total number of passengers carried, earning revenue	74,630		
Number of passengers carried one mile  Average distance carried  Average amount received from each passenger.		28.2	<b>\$</b> 0 51.5
Average receipts per mile for through passengers Average receipts per mile for local passengers Average receipts per passenger per mile for all passengers			02.2 02.2 02.2
Freight traffic.			
-	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue  Number of tons of local freight carried, earning revenue	16,115 <b>24</b> 3,149		
Total tons of freight carried, earning revenue	259,264		
Total mileage of through freight Total mileage of local freight		436,342 8,116,218	
Total freight mileage or tons carried one mile		8,552,560	
Average ton haui for through freight  Average ton haul for local freight.	<del>-</del>	27 . 33.4	
Average ton haul for all freight	•••••	33.4	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight			\$0 60 02.5 01.8 01.8
43			

## FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

## Company's material excluded.

G.,	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	ion this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:			4 040		
Grain	692 333	651 868	1,848 701	.51 . <b>27</b>	
Flour Other mill products	114	348	462	.18	
Hav		1.702	2,081	.80	
Hay Fruit and vegetables	1.199	34	1.233	:44	
Potatoes	697	6	1,238 708	.27	
Products of animals:					
Live stock.	147	86	188	.07	
Dressed meats Other packing house products	74 66	1 2	76	.08	
Poultry, game and fish	171	11 120	77 291	.08 .11	
Wool	111	120	1	.11	
Wool	378	407	780	.80	
Products of mines:					
Anthracite coal		185	185	.07	
Bituminous coal	1,964	201	2,165	.88	
Coke		88	. 88	.01	
Oree Salt	114 3, <b>9</b> 04	28 1	142 3,905	.05 1.57	
Products of forest:					
Lumber	29,840	152	29,992	11.58	
Logs	192,809	160	192,989	74.47	
Shingles and lath	6,580	24	6,554	2.52	
Bark	4,868	104	4,472	1.75	
Manufactures: Petroleum and other oils.	150	201	484	10	
	158 24	381 161	185	. 19	
Sugar Iron nig and bloom	<i>i</i> n €	187	187	.07	
Iron, pig and bloom Other castings and machinery Cement, brick, and lime	441	458	899	.80	
Cement, brick, and lime	70	337	407	.16	
Wagons, carriages, tools, etc.	120	108	228	.09	
Wagons, carriages, tools, etc	216	449	665	. 25	
Household goods and furniture	444	241	685	.25	
Hames and hoops	1,292	1,857	2,649	1.02	
Merchandise	1,816	511	1,827	.70	
Miscellaneous:					
Other commodities not mentioned above	1,926	648	2,569	.99	
Total tonnage.	249,777	9,356	259.183	100	

## ADDITIONAL QUESTIONS.

## Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Company.
A general transportation business on a pro rata basis as to rates.
Take their freight at the depot.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Seventy-six miles. Manistee & North Eastern R. R. Co.

## Fast freight lines.

To what fast freight, lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this state upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid
Armour Car Lines. American Befrigerator Transit Co.	Chicago, Ill.	l 198
Burton Stock Car Co. Blue Line Commercial Despatch. Canada Southern Line	Chicago, Ill.	24 28 50
Commercial Despatch	Cleveland, O.	26 90
Canada Southern Line	Rochester, N. Y.	10 61
Chicago Befrigerator Line	Chicago, 111. Boston, Mass.	17 80 80
Cantornia Fruit Transit CO.  Erie Depatch Empire Line.	Cleveland, O. Philadelphia, Pa	60 88 62
Great Eastern Line International Fruit Dealers' D. L. Merchants' Despatch Transportation Co. National Despatch Line New York Despatch Line	Montreal, Can. Chicago, Ill. New York, N. Y. Boston, Mass. Boston, Mass.	70 2 64 17 56 8 02 71
North & South R. Stock Co. Osborn Sargar Coal Tr. Co. Red Line Southern Despatch Lumber Line Southern Iron Car line	Cleveland, Ohio	6 38
Union Tank Line Union Befrigerator Transit Co White Line Western Equipment Car Co Mather Stock Car Co	Buffalo, N. Y	60 1 92 48

## REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1806.

## INJURED.

March 2, Michael Doyle, Goodrich Crossing, Mich. Stepped off platform of rear coach when train was running at rate of 20 miles an hour. Was somewhat under the influence of liquor. Injury to head.

## TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.			Injured.		
( auses of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Falling from trains				1		
Total				1		

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year Number resulting from lack of caution, carelessness or misconduct. Persons killed or injured while intoxicated.	1 1 1

STATE OF MICHIGAN, } 58.

Edward Buckley, president and general manager, and Robert Porteous, auditor, of the Manistee & Northeastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

EDWARD BUCKLEY, President. ROBERT PORTEOUS, Auditor.

Subscribed and sworn to before me this 16th day of April, A. D. 1897.

[L. S.]

D. O. ANDERSON. Notary Public.

#### OF THE

# MANISTEE & NORTHEASTERN RAILROAD COMPANY,

#### (SUPPLEMENTARY)

For the year ending December \$1, 1896.

[Filed April 26, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

The same as Manistee & Northeastern.

DIRECTORS.

The same as Manistee & Northeastern.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

See general report for Manistee & Northeastern.

# ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MICHIGAN.

PASSENGEE EARNINGS.		
Main line and branches: Local fares Through fares	\$7,098 86 750 09	
Total passenger fares	\$7,848 95	
Express and baggage.	195 46 1,196 14	
Total passenger department earnings		\$9,180 55
Main line and branches:		
Local traffic Through traffic	\$6,038 60 266 11	
Total traffic	\$6,304 71	
Total freight department earnings		6,804 71
Total transportation earnings, entire line		\$15,485 28

#### DESCRIPTION OF ROAD.

If north of parallel 44 of latitude: Yes.
Give date road commenced to be built: October 1, 1891.
Give date road completed: July 1, 1892.
Give date road commenced to be operated: July 1, 1892.
Where built from and to: Lake Ann to Cedar City and Traverse City, Mich.
Give exact number of miles: 25.

# STATE OF MICHIGAN, BS. COUNTY OF MANISTEE,

Edward Buckley, president and general manager, and Robert Porteous, auditor, of the Manistee & Northeastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

EDWARD BUCKLEY, President. ROBERT PORTEOUS, Auditor.

Subscribed and sworn to before me this 16th day of April, A. D. 1897.
[L. S.]

D. O. Anderson, Notary Public.

#### OF THE

# MANISTIQUE RAILWAY COMPANY,

For the year ending December 31, 1996.

[Filed February 24, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, M. S. SMITH, Detroit, Mich.

Vice President, LEWIS A. HALL, Bay Mills, Mich.

Secretary, J. C. McCAUL, Detroit, Mich.

Auditor, G. H. STALKER, Detroit, Mich.

Treasurer, J. C. McCAUL, Detroit, Mich.

General Superintendent, JOHN MILLEN, Black River, Mich.

Assistant General Superintendent, WM. GREEN, Grand Marais, Mich.

General Passenger Agent, J. F. CHISHOLM, Grand Marais, Mich.

#### DIRECTORS.

R. A. ALGER, Detroit, Mich. M. S. SMITH, Detroit, Mich. J. C. MCCAUL, Detroit, Mich. LEWIS A. HALL, Bay Mills, Mich. R. K. HAWLEY, New York, N. Y. G. H. STALKER, Detroit, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 18, 1836. Articles amended October 21, 1839. Number of stockholders: 9.
Number of stockholders in Michigan at same date: 7.
Amount of full paid stock held in Michigan at same date. \$114,800.00.
Date of annual meeting of stockholders: Not fixed.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

GENERAL EXHIBIT.	
Debit.	Credit.
Total earnings from operation	\$116,713 28
Total earnings from operation	4110,110 20
Net income	\$42,868 70
7.44	
Interest on unfunded debt	
Balance applicable to dividends	\$37,454 14
Poly A of	
Balance for the year	\$37,454 14 207,955 60
Daisnos (pront and loss) last year	201,999 00
Balance forward to next year.	\$245,409 74

### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$500,000 00
Par value of shares \$100 No. of shares issued 1,500	
Amount paid in on common \$150,000 00	
Total amount paid in, as per books of the company	150,000 00
Paid in per mile of road owned by company (59.50 miles)	2,521 01
ANALYSIS OF DEBT ACCOUNTS.	
UNFUNDED DEST.	
Total unfunded debt	\$88,493 88
RECAPITULATION.	
Total unfunded debt	\$88,493 38
Total debt liabilities	\$88,493 38
Amount of debt liabilities per mile of road, 59.50 miles.	1,487 28
Total amount of stock and debt.  Stock and debt per mile of road, 59.50 miles	288,493 88
Stock and debt per mile of road, 59.50 miles	4,008 29
GENERAL BALANCE SHRET.—Dr.	
Construction account	\$393,878 <b>62</b> 75,849 21
Equipment account	13,049 21
Cash	
Other assets:	1,214 <b>29</b>
Materials and supplies \$11,466 00	11,466 00
Total	\$488,908 12
GENERAL BALANCE SHEET.—Cr.	
Clarabel shock	e180 000 00
Capital stock	\$150,000 00
Notes payable Vouchers and accounts	41,082 42 47,460 96
Profit and loss or income accounts.	245,409 74
Total	\$488,908 12
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	ı
Total expended for construction and equipment.  Average cost per mile of road (not including sidings) 59.50 miles	\$471,2 <b>22 88</b> 7,919 <b>7</b> 1
Average cost per mile of road (not including stdings) sello miles	
ANALYSIS OF EARNINGS BOAD ALL IN STATE OF MICHIGAN.	
PASSENGER EARNINGS.  Main line and branches:	
Local fares \$9,244 99	
Total passenger fares. 99,244 99	
Mails 1,753 16	
Total passenger department earnings	\$10.996 15
	410,980 19
Per mile of road	

FREIGHT BARNINGS.		
Main line and branches: Local traffic	\$105,565 13	
Total freight department earnings		\$105,565 18
Per mile of road.	\$1,774 20	
Total transportation earnings, entire line		\$116,563 28
Transportation earnings per mile of road	\$1,959 04 1 81	
Miscellaneous receipts from operating accounts, other than for transportation, as follows:  From rents not otherwise provided for	\$150 00	
Total		\$116,713 28
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Proportion of taxable earnings fer Michigan Total taxable earnings per mile of road in Michigan	\$1,961 57 1 82 116,713 28 1,961 57	\$116,713 28
Total income from all sources		116,713 28
Proportion of income for Michigan		116,713 28
analysis of expenses.		
Maintenance of ways and structures	•	\$23,706 99
Maintenance of equipment		\$13,131 50
Conducting transportation		\$34,072 11
GENERAL EXPENSES,		
Insurance Stationery and printing (general offices) Other expenses Taxes		\$150 50 44 69 394 23 2,844 56
Total		\$2,938 98
RECAPITULATION OF EXPENSES.		
	Per cent of	
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes.	expenses. \$2.10 17.79 46.14 3.97	\$23,706 99 13,131 50 84,072 11 2,933 98
Total operating expenses and taxes	100	\$78,844 58
Operating expenses and taxes per mile of road	64,180 miles.	\$1,241 09 1 15
Percentage of expenses to earnings	.63	720 <u>48</u> 67
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Germfask to Grand Marais, October 15, 1893.		•
MAIN LINE.	<b>M</b> 22	<b>3411</b> -
In Michigan, from Germfask to Grand Marais	Miles.	Miles. 39.50

Total length completed .....

39.50

### BRANCHES.

From Grand Marais Junction to Hall & Buell Camp	
Total length of branches owned by company	20
Total length of branches owned by company in Michigan	
	59.50
Total length of road belonging to this company in Michigan 59.50 Aggregate length in Michigan of sidings, spurs, and other tracks not above	30.00
enumerated	67.50
Gauge of track, 4 feet 8½ inches.	61.00
Number of bridges and trestles in Michigan. A Number. Le	ggregate
	225
Wooden bridges 2 Combination bridges 1	300
Total 8	525
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? D. S. S. & A. R. R. at Seney.	
At what crossings are interlocking and derailing switches in operation? Sency.	
What pattern or patterns have you adopted? Gravit.	
Number of crossings or highways at grade in this State	4
Are your frogs and guard rails blocked as required by Session Laws of 1883? Yes.	
How are they treated? Bolted and blocked with two inch plank.	
Stations.	
Number of stations on whole lines	4
Same in Michigan	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials (all in Michigan)	30
Classify your employés as per following list:	Number.
Baggagemen	1
Brakemen	6
Conductors Engineers	8
Firemen.	3 3 1
Laborers	1
Shopmen	10
Yardmen	1
Others	1
REPAIRS AND RENEWALS.	
Road bed and track.	
Number of track sections in Michigan	6
A verage length of sections (miles).	4
Average number of men in each section gang	30.000
Average number of men in each section gang Number of new ties put in whole line during the year Number of new ties put in track in Michigan	30,000
Average number of new ties per mile of road	505
14	

#### ROLLING STOCK

ROLLING STOCK.		
Number of locomotives of more than 30 tons weight, exclusive of tender  Total		Present esti- nated value. \$22,686 48 \$22,686 48
Number of passenger cars and baggage combination—8-wheel, including official cars  Number of box freight cars  Number of platform cars  Number of conductors' way cars  Other cars as follows:  Log cars	1 1 95 3	\$3,100 450 33,593 43 1,627 00 8,420 75
TAB ASTA		
Total	140	<b>\$47,191 18</b>
Number of locomotives equipped with power brakes		3 1

What patterns of power brakes have you in use, and number of locomotives and cars with each? American on locomotives. Westinghouse on passenger car.

MILEAGE, TRAFFIC, ETC.			
Train mileage.			In Michigan.
Miles run by freight trains during the year			39,580
Total mileage of trains earning revenue		••••••	64,180
Passenger traffic.—In State of Mich	igan.		
Number of local passengers carried, earning revenue	Numbers. 11,500	Miles	. Rate.
Total number of passengers carried, earning revenue	11,500		
Number of passengers carried one mile  Average distance carried.  Average amount received from each passenger  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers	- <b></b>		<b>\$</b> 0.80 04
Freight traffic.—In State of Mich	igan.		
Number of tons of local freight carried, earning revenue	Tons. 188,895	Miles	. Rate.
Total tons of freight carried, earning revenue	188,895		
Total mileage of local freight		5,026,585 26.61	l
Average ton haul for all freight		26.61	Ī
Average amount received for each ton haul.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.			.021

# MANISTIQUE RAILWAY COMPANY.

### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this road.		Whole tons.	Per cent.
Products of forest: Logs	184,123 500		184,128 500	97.47 .26
Merchandise: Lumbermen's supplies	4,272		4,272	2.27
Total tonnage	188,895		188,895	100.00

# STATE OF MICHIGAN, } 88.

M. S. Smith, president, and J. C. McCaul, secretary, of the Manistique Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

M. S. SMITH, J. C. McCAUL.

Subscribed and sworn to before me this 23d day of February, A. D. 1897. [L. 8.]

G. H. STALKER, Notary Public.

#### OF THE

# MANISTIQUE & NORTHWESTERN RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WILLIAM H. HILL, Manistique, Mich. Vice President, ROBERT M. CHERRIE, Chicago, Ill. Secretary and Treasurer, J. D. MERSERAU, Manistique, Mich, General Manager, WILLIAM H. HILL, Manistique, Mich. Superintendent, JOHN A. ROBINSON, Manistique, Mich.

#### DIRECTORS.

ROBERT M. CHERRIE, Chicago, Ill.
ABIJAH WESTON, Painted Post, N. Y.
WILLIAM H. HILL, Manistique, Mich.
GEO. H. OER, Manistique, Mich.
MARTIN H. QUIOR, Manistique, Mich.
JOHN D. MERGEREAU, Manistique, Mich.
HENRY DUVALL, Manistique, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered: April 25, 1891.

Number of stockholders at date of last election: 7.

Number of stockholders in Michigan at same date: 5.

Amount of full paid stock at same date: \$740.00.

Date of annual meeting of stockholders: First Monday in September.

Fiscal year of company ends December 31.

General offices of the company are located at Manistique, Mich.

#### R**ema**rks

The Manistique & Northwestern Railway Co. was surveyed in 1892-'93, Manistique, Michigan, to Negamee, Michigan (about 90 miles). About 21 miles of grading was done in 1895 and 1896, 11 miles of rail has been laid and ballasting will be done the coming year. The stockholders have advanced the necessary funds for construction expense.

#### REPORT FOR THE YEAR ENDING DECEMBER 31, 1896.

Total expenses including taxes Interest on current accounts	\$82,099 42 2,800 00
Balance forward to next year	1,619 91
ANALYSIS OF CAPITAL STOCK.	
Authorized by charter.  Par value of shares	\$1,600,000 00 

105,000 00

Total amount paid in as per books of the company, 1,050 shares

#### ANALYSIS OF DEBT ACCOUNT.

Unfunded debt for current balances.	\$1,619 91
GENERAL BALANCE SHEETDr.	
Construction account, 1898. Equipment account, 1898. Interest account, 1898. Construction and equipment expense for 1895.	\$30,421 21 51,678 21 2,800 00 21,720 49
Total	\$106,619 91
GENERAL BALANCE SHEET.—Cr.	
Capital stock paid in Unfunded debt current accounts	\$105,000 00 1,619 91
Total	\$106,619 91
DESCRIPTION OF ROAD.	
North of parallel 44 of latitude. Claiming exemption from taxation under Act 174, Session Laws of 1891. Commenced to build road, Sept., 1895.	
ROLLING STOCK.	
One locomotive, 20 to 30 tons weight. One locomotive, 10 to 20 tons weight. Thirty platform ears. Thirty logging cars. Three boarding cars.	\$4,000 00 1,500 00 3,000 00 2,250 00 300 00
Total	\$11,050 00

STATE OF MICHIGAN, COUNTY OF SCHOOLCRAFT, 88.

Martin H. Quick and George H. Orr, directors of the Manistique & Northwestern Bailway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

MARTIN H. QUICK, GEORGE H. ORR.

Subscribed and sworn to before me this 29th day of March, A. D. 1897. [L. 8.]

CARBY W. DUNTON,
Notary Public.

#### OF THE

### MASON & OCEANA RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed January 18, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, M. F. BUTTERS, Ludington, Mich. Vice President, R. G. PETERS, Manistee, Mich. Secretary, M. F. BUTTERS, Ludington, Mich. Treasurer, HORACE BUTTERS, Ludington, Mich. General Superintendent, M. McDERMOTI, Ludington, Mich. Chief Engineer, OTTO WREGE, Ludington, Mich.

#### DIRECTORS.

- M. F. BUTTERS, Ludington, Mich.
- R. G. PETERS, Manistee, Mich.
- J. H. LYONS, Ludington, Mich.
- H. BUTTERS, Ludington, Mich.
- G. N. STRAY, Ludington, Mich. Term expires January 9, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 9, 1886. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 5. Amount of full paid stock held in Michigan at same date: \$150,000.00. Date of annual meeting of stockholders: Second Monday in January. Fiscal year of company ends: December 31. General offices of the company are located at Ludington, Mich.

	GENERAL EXHIBIT.		Debit.	Credit.
Total earnings from operation Total expenses, including taxes.				\$14,846 81
	ANALYSIS OF CAPITAL STOCK.			
Par value of shares	r articles of association.	1,500	\$100 00 150,000 00	\$150,000 <b>00</b>
Total amount paid in, as per	books of the company			150,000 00
Paid in permile of road owned b	y company	·		5,565 55
	UNFUNDED DEBT.			
For what incurred.	Is the same to be funded or how	liguid	ated.	Amount.
For renewals				\$50,000 00
Total unfunded debt				\$50,000 00

#### RECAPITULATION.

ABOUT 11 VIZ. 10N.		
Total unfunded debt		\$50,000 00
Total debt liabilities		\$50,000 00
Amount of debt liabilities per mile of road, 27 miles Stock and debt per mile of road, 27 miles		1,851 85 7,407 50
GENERAL BALANCE SHRETDr.		
Construction account	\$145,000 00 50,000 00	\$195.000 00
Other assets: Materials and supplies	<b>\$</b> 5,000 00	*
manal.		5,000 00
Total		\$200,000 00
GENERAL BALANCE SHEETCr.		
Capital stock.		\$150,000 00 50,000 00
Total.		\$200,000 00
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches built	by company	ı <b>.</b>
Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 27 miles.		\$195,000 00 7,222 28 7,222 22
LLODOLMON OF COST IOL WIGHTSON		1,000,00
Proportion of cost for Michigan		
PASSENGER BARNINGS.  Main line and branches:		
PASSENGER BARNINGS.	<b>\$1,652</b> 51	1,380 49
PASSENGER BARNINGS.  Main line and branches:		
PASSENGER BARNINGS,  Main line and branches:  Local fares	\$1,652 51	1,000 00
PASSENGER BARNINGS,  Main line and branches:  Local fares.  Total passenger fares.	\$1,652 51 \$1,652 51 1,256 20	\$2,908 71
Main line and branches:  Local fares.  Total passenger fares.  Mails.	\$1,652 51 \$1,652 51 1,256 20	
PASSENGER BARNINGS.  Main line and branches:  Local fares  Total passenger fares.  Mails  Total passenger department earnings  Per train mile  Per mile of road  FREIGHT EARNINGS.	\$1,652 51 \$1,652 51 1,256 20	
Main line and branches: Local fares.  Total passenger fares.  Mails.  Total passenger department earnings  Per train mile  Per mile of road.	\$1,652 51 \$1,652 51 1,256 20	
Main line and branches:  Local fares.  Total passenger fares.  Mails.  Total passenger department earnings.  Per train mile.  Per mile of road.  FREIGHT BARNINGS.	\$1,652 51 \$1,652 51 1,256 20 	
Main line and branches:  Local fares  Total passenger fares  Mails  Total passenger department earnings  Per train mile  Per mile of road  FREIGHT EARNINGS.  Main line and branches:  Local traffic	\$1,652 51 \$1,652 51 1,256 20 \$0 17 107 78 \$11,438 10 \$11,438 10	
Main line and branches:  Local fares  Total passenger fares.  Mails  Total passenger department earnings  Per train mile  Per mile of road  FREIGHT EARNINGS.  Main line and branches:  Local traffic  Total traffic  Total freight department earnings  Per train mile  Per mile of road.	\$1,652 51 \$1,652 51 1,256 20 	\$2,908 71
Main line and branches:  Local fares.  Total passenger fares.  Mails.  Total passenger department earnings  Per train mile .  Per mile of road.  Main line and branches:  Local traffic.  Total traffic.  Total freight department earnings  Per train mile .  Per mile of road.  Total transportation earnings, entire lines.	\$1,652 51 \$1,652 51 1,256 20 	\$2,908 71
Main line and branches:  Local fares.  Total passenger fares.  Mails.  Total passenger department earnings  Per train mile .  Per mile of road.  Main line and branches:  Local traffic.  Total traffic.  Total freight department earnings  Per train mile .  Per mile of road.  Total transportation earnings, entire lines.	\$1,652 51 \$1,652 51 1,256 20 	\$2,908 71 11,438 10
Main line and branches:  Local fares  Total passenger fares.  Mails  Total passenger department earnings  Per train mile  Per mile of road  FREIGHT EARNINGS.  Main line and branches:  Local traffic  Total traffic  Total freight department earnings  Per train mile  Per mile of road.	\$1,652 51 \$1,652 51 1,256 20 	\$2,908 71 11,438 10

#### OF THE

# MASON & OCEANA RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed January 18, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, M. F. BUTTERS, Ludington, Mich.
Vice President, R. G. PETERS, Manistee, Mich.
Secretary, M. F. BUTTERS, Ludington, Mich.
Treasurer, HORACE BUTTERS, Ludington, Mich.
General Superintendent, M. Modermott, Ludington, Mich.
Chief Engineer, OTTO WREGE, Ludington, Mich.

#### DIRECTORS.

M. F. BUTTERS, Ludington, Mich.

R. G. PETERS, Manistee, Mich.

J. H. LYONS, Ludington, Mich. H. BUTTERS, Ludington, Mich.

G. N. STRAY, Ludington, Mich.

Term expires January 9, 1898.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 9, 1886. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 5. Amount of full paid stock held in Michigan at same date: \$150,000.00. Date of annual meeting of stockholders: Second Monday in January. Fiscal year of company ends: December 31. General offices of the company are located at Ludington, Mich.

	GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes			\$14,846 81
	ANALYSIS OF CAPITAL STOCK.		
Par value of shares	articles of association	\$100 00 150,000 00	\$150,000 00
Total amount paid in, as per l	books of the company		150,000 00
Paid in per mile of road owned by	company		5,555 55
	UNFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liquid	lated.	Amount.
For renewals			\$50,000 00
		I	\$50,000 00

### RECAPITULATION.

Total unfunded debt		\$50,000 00
Total debt liabilities		\$50,000 00
Amount of debt liabilities per mile of road, 27 miles	•••••••	1,851 85 7,407 50
GENERAL BALANCE SHEETDR.		
Construction account Equipment account	\$145,000 00 50,000 00	\$195,000 00
Other assets: Materials and supplies	\$5,000 00	5,000 00
Total		\$200,000 00
GENERAL BALANCE SHEET.—Cr.		
		\$150,000 00
Capital stock		50,000 00
Total.	•••••	\$200,000 00
COST OF BOAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches built	by company	<b>.</b>
Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 27 miles  Proportion of cost for Michigan.		\$195,000 00 7,222 28 7,222 28
•		
PASSENGER BARNINGS.		
Main line and branches:		
Main line and branches:  Local fares	\$1,652 51	
	\$1,652 51 \$1,652 51	
Local faree		
Local fares	\$1,652 51 1,256 20	\$2,908 71
Local fares  Total passenger fares.  Mails	\$1,652 51 1,256 20	\$2,908 71
Local fares  Total passenger fares.  Mails  Total passenger department earnings  Per train mile	\$1,652 51 1,256 20 	\$2,908 71
Local fares  Total passenger fares.  Mails  Total passenger department earnings.  Per train mile	\$1,652 51 1,256 20 	\$2,908 71
Total passenger fares.  Mails.  Total passenger department earnings.  Per train mile.  Per mile of road.  FREIGHT EARNINGS.	\$1,652 51 1,256 20 	<b>\$2,90</b> 8 71
Total passenger fares.  Mails.  Total passenger department earnings  Per train mile Per mile of road.  FREIGHT EARNINGS.  Main line and branches: Local traffic.	\$1,652 51 1,256 20 30 17 107 73 \$11,438 10 \$11,438 10	<b>\$2,90</b> 8 71
Total passenger fares.  Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  Main line and branches: Local traffic.  Total traffic.	\$1,652 51 1,256 20 30 17 107 73 \$11,438 10 \$11,438 10	
Total passenger fares.  Mails.  Total passenger department earnings  Per train mile Per mile of road.  Main line and branches: Local traffic.  Total traffic.  Total freight department earnings  Per train mile  Per train mile	\$1,652 51 1,256 20 30 17 107 73 \$11,438 10 \$11,438 10 \$0 88 428 64	
Total passenger farea.  Mails  Total passenger department earnings  Per train mile Per mile of road.  Main line and branches: Local traffic  Total traffic  Total freight department earnings  Per train mile Per mile of road.  Total freight department earnings  Total freight department earnings  Total freight department earnings  Per train mile Per mile of road.  Total transportation earnings per mile of road.	\$1,652 51 1,256 20 30 17 107 73 \$11,438 10 \$11,438 10 \$0 88 428 64	11,438 10
Local fares  Total passenger fares.  Mails.  Total passenger department earnings.  Per train mile Per mile of road.  FREIGHT EARNINGS.  Main line and branches:  Local traffic.  Total traffic.  Total freight department earnings  Per train mile Per mile of road.  Total transportation earnings per mile of road.	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10 \$11,438 10 \$428 64	11,438 10 \$14,346 81
Local fares  Total passenger farea.  Mails  Total passenger department earnings  Per train mile Per mile of road.  FREIGHT EARNINGS.  Main line and branches: Local traffic.  Total traffic.  Total freight department earnings  Per train mile Per mile of road.  Total transportation earnings, entire lines.  Transportation earnings per mile of road.  Transportation earnings per train mile. Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	\$1,652 51 1,256 20 \$0 17 107 73 \$11,438 10 \$11,438 10 \$3,88 428 64	11,438 10

### ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway	
Renewals of ties	\$1,000 00 500 00 100 00
Repairs and renewals of fences, road crossings, signs and cattle guards	100 00
Total	\$1,700 00
MAINTENANCE OF EQUIPMENT.	
Repairs and renewals of locomotives	\$3,000 00 500 00 100 00
Total	\$3,600 00
CONDUCTING TRANSPORTATION.	
Engine and roundhouse men	\$2,000 00
Fuel for locomotives	2,000 00
Dil. tallow and waste for locomotives	200 00 200 00
Other supplies for locomotives	100 00
Frain service	8,820 00 50 00
Frain supplies and expenses individual in the supplies and watchmen. Felograph expenses	200 00 50 00
Felegraph expenses	50 00 30 00
Stationery and printing	20 00
Other expenses.	2 89
Total	\$8,672 89
GENERAL EXPENSES.	
Taxes	\$378 92
Total	\$378 92
RECAPITULATION OF EXPENSES.  Maintenance of way and structures	\$1,700 00 3,600 00 8,672 89 873 92
Maintenance of way and structures	3,600 00 8,672 89 873 92
Maintenance of way and structures	3,600 00 8,672 89
Maintenance of way and structures	3,600 00 8,672 89 873 92
Maintenance of way and structures	3,600 00 8,672 89 873 92
Maintenance of way and structures	3,600 00 8,672 89 873 92
Maintenance of way and structures	3,600 00 8,672 89 873 92
Maintenance of way and structures	3,600 00 8,672 89 873 92 \$14,346 81
Maintenance of way and structures	3,600 00 8,672 89 873 92
Maintenance of way and structures	3,600 00 8,672 89 373 92 \$14,346 81
Maintenance of way and structures	3,600 00 8,672 89 873 92 \$14,346 81 Miles. 27.00
Maintenance of way and structures	3,600 00 8,672 89 873 92 \$14,346 81 Miles. 27.00
Maintenance of way and structures.  Maintenance of equipment	3,600 00 8,672 89 873 92 \$14,346 81 Miles. 27.00
Maintenance of way and structures	3,600 00 8,672 89 873 92 \$14,346 81 Miles. 27.00
Maintenance of way and structures.  Maintenance of equipment	3,600 00 8,672 89 873 92 \$14,346 81 Miles. 27.00

Number of bridges and trestles in Michigan.		
. Wooden bridges	Number.	Aggregate length, feet.
Total	. 3	450
Crossings.—Railroad and highway.		
Number of crossings of highways at grade in this State.		11
Stations.		
Number of stations on whole lines.		6.
Same in Michigan		6
Employés.		
Minployes.		
Number of persons regularly employed on all roads operated by company, inclu Same in Michigan		80 80
Classify your employés as per following list:		Number.
Brakemen		5
ConductorsEngineers		1
Firemen		4
Laborera		
Yardmen		
REPAIRS AND RENEWALS.		
Fencing in Michigan.		
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track and the counties in which needed.	n Michigan,	20 7
Road bed and track.		
Number of track sections in Michigan	7	4
Average number of men in each section gang  Number of new ties put in whole line during the year.		9,000
Number of new ties put in track in Michigan.		9,000
Average number of new ties per mile of road		333
ROLLING STOCK.	Number.	Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender Number of locomotives of 20 to 30 tons weight, exclusive of tender Number of locomotives of 10 to 20 tons weight, exclusive of tender	8	\$6,000 00 10,000 00 2,000 00
Total	7	\$18,000 00
Number of passenger cars—8-wheel, including official cars————————————————————————————————————	1 60	\$500 00 300 00 100 00 6,000 00 25,000 00
Number of conductors' way cars		. 100 00
Total	250	\$50,000 00

What patterns of power brakes have you in use, and number of lecomotives and cars with each? Ratchet, hand and chain wheel.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887. No.

What pattern or patterns have you adopted for use? Link and pin.

How are your passenger cars heated. Coal heater.

# MILEAGE TRAFFIC, ETC.

Train mileage.			In Michigan.
Miles run by passenger trains during the year			17,000
Total mileage of trains earning revenue		•	30,000
Passenger traffic.—In State of Mich	igan.		
Number of local passengers carried, earning revenue	Numbers. 4,181	Miles	Rate.
Total number of passengers carried, earning revenue	4,131		
Number of passengers carried one mile			\$0 40 03 03
Freight traffic.—In State of Michi	ga <b>n.</b>		
Number of tons of local freight carried, earning revenue	Tons. 22,876	Miles	. Rate.
Total tons of freight carried, earning revenue	22,876		
Total mileage of local freight	·····	13,000	)
Total freight mileage or tons carried one mile		297,388	3
Average ton haul for through freight.  Average ton haul for local freight.  Average ton haul for all freight.  Average amount received for each ton haul.  Average r ceipts ton per mile for through freight.  Average receipts ton per mile for local freight.  Average receipts ton per mile for local freight.  Retimated cost of carrying one ton one mile.			\$0 50 . \$0 50 . 02 . 02 . 02

### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

Commodity,	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commoney.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture: Grain Flour Other mill products Hay Potatoes	200 40 40 50 20		200 40 - 40 50 20		
Products of animals:  Live stock  Dreesed meate Other packing house products  Poultry, game and fish	10 20 20 20 10		10 20 20 10		
Products of forest: Lumber Logs Shingles	300 21,821 100		300 21,821 100		
Manufactures: Petroleum and other oils	15 5 10 5		5 15 5 10 5 5		
Merchandise	200		200		
Total tonnage	22,876		22,876		

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 20 miles.

# STATE OF MICHIGAN, } 88.

M. F. Butters, president of the Mason & Oceana Bailroad Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. of R. R.]

Signed,

M. F. BUTTERS, President.

Subscribed and sworn to before me this 11th day of January, A. D. 1897.

[L. 8.]

GEO. N. STRAY, Notary Public, Mason Co., Mich.

#### OF THE

# MICHIGAN AIR LINE RAILWAY COMPANY.

For the year ending December \$1, 1896.

[Filed April 2, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CHAS. M. HAYS, Montreal.
Secretary and Treasurer, CHAS. PERCY, Montreal.
Accountant, J. H. Muir, Detroit.
General Manager, CHAS. M. HAYS, Montreal.
Superintendent, A. B. ATWATER, Detroit.
Engineer, GEO. MASSON, Detroit.
General Trafic Manager, GEO. B. REEVE, Montreal.
General Passenger and Ticket Agent, W. E. DAVIS, Montreal.
Assistant Ge. eral Passenger and Ticket Agent, E. H. HUGHES, Chicago.
General Freight Agent, J. W. LOUD, Montreal.
First Assistant General Freight Agent, DAVID BROWN, Chicago.
Attorney, E. W. MEDDAUGH, Detroit.

#### DIRECTORS.

CHAS. M. HAYS, Montreal, Quebec.
JOHN BELL, Belleville, Ontario.
E. W. MEDDAUGH, Detroit, Mich.
W. J. SPICER, Detroit, Mich.
J. H. MUIR, Detroit, Mich.
Terms expire September, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 18, 1875.

Number of stockholders at date of last election: 7.

Number of stockholders in Michigan at same date: 3.

Amount of full paid stock held in Michigan at same date: \$1,500.00.

Date of annual meeting of stockholders: Last Wednesday in September.

Fiscal year of company ends December 31.

General offices of the company are located at Detroit, Mich.

#### GENERAL EXHIBIT.

UMUMAL BAUIDII.		
	Debit.	Credit.
Total earnings from operation Total expenses, including taxes		\$148,441 11
Total expenses, including taxes		141,052 92
Net income		\$7,388 19
Interest on funded debt	\$75,488 34	
Balance for the year, deficit.	\$68,045 15	
Items not included in above, as follows:		
Rents Contribution from Grand Trunk B'y towards interest liabilities, deficit	94 00 67,951 15	

	ANALYSI	S OF CA	PITAL STOCK.			
Amount authorised by charter or Par value of shares				3.000	\$100 00 00,000 00	\$1,500,000 00
Total amount paid in, as per l	ooks of th	ne compan	·y			300,000 00
Paid in per mile of road owned by	ompany	, 105.60 mi	les			2,840 91
			•			
<b>A</b> 3	NALYSIS	OF DEB	r accounts			
		FUNDED 1	DEBT.			
Class, character and date of	issue,	Rate of Interest.	When due.	Where pa	yable.	Amount outstanding.
First mortagage, Jan., 1882		5≴	Jan., 1902	London, I	Ing.	\$1,508,666 67
Total funded debt						\$1,508,666 67
	טעאט	NDED DEI	3T.			
For what incurred.	For what incurred. Is the same to be funded or how liquidated?			d7	Amount.	
For current balances						\$47,463 68
	R	ECAPITUL	ATION.			
Total funded debtTotal unfunded debt						\$1,508,666 67
Total debt liabilities	le of road,	103.60 mil	68			14,736 08 1,856,130 35 17,576 99
G	ENERAL	BALANC	E SHEETDr.			
Construction account Equipment account					:::::}	\$1,818,097 83
Other assets: Debit balances from companies	and indivi	iduals				38,033 02
Total					•••••	\$1,856,130 35
GE	NERAL I	BALANCE	SHEET.—CR.			
Capital stockFunded debt.				\$30	00,000 00 08,666 67	
Unfunded debt:	•			<u> </u>		\$1,808,666 67
				\$8	9,747 01	
Profit and loss or income account						47,468 68
Total						\$1,856,180 35

# COST OF BOAD AND EQUIPMENT.

### PURCHASED BY PRESENT COMPANY.

When purchased: November, 1875. Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction.  Amount expended since purchase, account of equipment.		\$300,000 1,517,097 1,000	00 88 00
Total cost to date of report.		\$1,818,097	83
Average cost per mile of road (not including sidings), 105.60 miles		17,216 17,216	83 83
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICE	IIGAN.		_
PASSENGER BARNINGS.  Main line and branches:			
Local fares.	\$30,435 89 58 02		
Total passenger fares	\$30,493 91		
Express and baggage	2,499 96 8,838 00		
Total passenger department earnings		\$41,331	87
Per train mile	<b>9</b> 0 53 <b>391 4</b> 0		
PREIGHT EARNINGS.			
Main line and branches: Local traffic Through traffic	96,903 05 9,206 19		
Total freight department earnings		106,109	24
Per train mile	\$0 91 1,004 82		
Total transportation earnings, entire line		\$147,441	11
Transportation earnings per mile of road	1,396 22 75		
Miscellaneous receipts from operating account, other than for transportation, as From rent of tracks, yards and terminals	\$1,000 00		
Total		148,441	11
Total earnings from operation of road. Total earnings per mile of road Total earnings per train mile. Income other than from earnings		\$148,441 1,405	
Total income from all sources		\$149,535	
Town moome from an sources		#140,000	<b>=</b>
ANALYSIS OF EXPENSES.			
MAINTENANCE OF WAY AND STRUCTURES.			
Repairs of roadway		\$23,739 1,871	77 86
Renewals of ties.		12,358	82
Renewals of ties Repairs and renewals of bridges and culverts Repairs and fouewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures			
Total		\$54,652	<i>9</i> 7
MAINTENANCE OF EQUIPMENT.			_
Superintendence. Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of work cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses		\$28 2,563 3,055 4,068 722 654 39	17 64
Total		\$11,127	64

### CONDUCTING TRANSPORTATION.

Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses Station service Station supplies Car mileage—balance Loss and damage Injuries to persons Advertising Stationery and printing Other expenses  Total	\$17,199 07 13,873 28 558 52 2.00 65 12,645 39 951 86 2,818 67 4,334 28 12,004 96 1,221 14 2,025 67 600 62 240 00 1,661 13 100 10
GENERAL EXPENSES.	
Salaries of general officers Salaries of clerks and attendants Insurance Law expenses Taxes Total	\$120 00 280 00 437 70 400 00 3,509 67 \$4,747 87
RECAPITULATION OF EXPENSES.  Per cent of	
expenses.	
Maintenance of way and structures 38.76 Maintenance of equipment 7.88	\$54,652 07 11,127 64
Conducting transportation 50.00	70,525 84
General expenses, including taxes	4,747 37
Total operating expenses and taxes	\$141,052 92
Operating expenses and taxes per mile of road	\$1,835 73
	72.224
Total proportion of expenses and taxes for Michigan	\$141,052 92
Percentage of expenses to earnings, 95%. Not earnings per mile of road.	\$141,052 92 \$1,405 69
Percentage of expenses to earnings, 95%.	\$141,052 92
Percentage of expenses to earnings, 95%. Not earnings per mile of road.	\$141,052 92 \$1,405 69
Percentage of expenses to earnings, 95%.  Not earnings per mile of road	\$141,052 92 \$1,405 69
Percentage of expenses to earnings, 95%.  Not earnings per mile of road	\$141,052 92 \$1,405 69 75
Percentage of expenses to earnings, 95%.  Not earnings per mile of road	\$141,052 92 \$1,405 69 75
Percentage of expenses to earnings, 95%. Not earnings per mile of road	\$141,052 92 \$1,405 69 75 Miles. 105.80
Percentage of expenses to earnings, 95%.  Not earnings per mile of road	\$141,052 92 \$1,405 69 75
Percentage of expenses to earnings, 95%. Not earnings per mile of road	\$141,052 92 \$1,405 69 75 Miles. 105.80
Percentage of expenses to earnings, 95%. Not earnings per mile of road	\$141,052 92 \$1,405 69 75 Miles. 105.60 105.60
Percentage of expenses to earnings, 95%. Not earnings per mile of road	\$141,052 92 \$1,405 69 75 Miles. 105.80
Percentage of expenses to earnings, 95%. Not earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF BOAD.  Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884.  MAIN LINE.  Miles.  In Michigan, from Lenox to Jackson.  Total length completed.  Total length of road belonging to this company in Michigan 105.60 Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.	\$141,052 92 \$1,405 69 75 Miles. 105.60 105.60
Percentage of expenses to earnings, 95%. Not earnings per mile of road. Not earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884.  MAIN LINE.  Miles.  In Michigan, from Lenox to Jackson.  Total length completed.  Total length of road belonging to this company in Michigan 105.60 Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 4 feet 8% inches.  Number of bridges and trestles in Michigan.	\$141,052 92 \$1,405 69 75 Miles. 105.60 105.60
Percentage of expenses to earnings, 95%. Not earnings per mile of road. Not earnings per train mile.  DESCRIPTION OF BOAD.  Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884.  MAIN LINE.  Miles. In Michigan, from Lenox to Jackson.  Total length completed.  Total length of road belonging to this company in Michigan 105.60 Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 4 feet 8% inches.  Number of bridges and trestles in Michigan.	\$141,052 92 \$1,405 69 75 Miles. 105.60 105.60 115.07
Percentage of expenses to earnings, 95%. Not earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884.  MAIN LINE.  Miles.  In Michigan, from Lenox to Jackson.  Total length completed  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track  Wumber of bridges and trestles in Michigan.  Number.  Wooden bridges.  1 Iron bridges.	#141,052 92  #1,405 69 75  Miles
Percentage of expenses to earnings, \$5%. Not earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF BOAD.  Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884.  MAIN LINE.  Miles. In Michigan, from Lenox to Jackson.  Total length completed.  Total length of road belonging to this company in Michigan	\$141,052 92  \$1,405 69 75  Miles. 105.60  105.60  115.07  Aggregate length, feet. 80
Percentage of expenses to earnings, 95%. Not earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Lenox to Jackson, September, 1884.  MAIN LINE.  Miles.  In Michigan, from Lenox to Jackson.  Total length completed  Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computed as single track  Wumber of bridges and trestles in Michigan.  Number.  Wooden bridges.  1 Iron bridges.	#141,052 92  #1,405 69 75  Miles

### Crossings.—Railroad and highway.

What railroads cross your road at Detroit & Bay City R. R. near R. Detroit, Grand Haven & Milwau Flint & Pere Marquette R. R. at Ann Arbor R. R. at Hamburg Detroit, Lausing & Northern R. Jackson, Lausing & Saginaw R.	Wixom.  R. at South Lyon,	at what locality?		
At what crossings are interlocking At the crossing of the Bay Cit Jackson, Saginaw & Lansing Div	and derailing switches by Division of the Michigan coision of the Michigan Co	in operation? gan ('entral R. R. entral R. R. at Jac	near Rocheste kson.	r; and the
What pattern or patterns have you Union Switch & Signal Co.				
Number of crossings of highways at grade in this State				
Number of crossings of highways a Number of highway bridges, 18 fee				2
Have safety guards been erected a				•
Yes.  Are your frogs and guard rails bloc	cked as required by act 1	74, session laws of	18837	
Yes. How are they treated?				
Filled with wood planking.	Stations.			
Number of stations on whole lines.				20
	Employés.		•	
Number of persons regularly em	ployed on all roads op	erated by compa	y, including	
officials	••••••	•		154
Classify your employés as per follo Baggagemen	_			Number.
Brakemen				13 9 4 4 70 1 3 47
Engineers. Firemen				4
Laborers				70
Shopmen Yardmen Others				3
Others				47
	REPAIRS AND RENEV	VALS.		
	Fencing in Michig	an.		
How many miles of fencing have ye				215
	Road bed and tra			
Number of track sections in Michig	gen .			14
Average lengths of sections, mues. Average number of men in each sec	tion gang			4
Average lengths of sections, miles. Average number of men in each sec Number of new ties put in whole l Number of new ties put in track in Average number of new ties per mi	ine during the year			32,689 32,689
Average number of new ties per mi	le of road			311
	Bridges and culve	rts.	,	
Amount of trestle work replaced w	ith earth during the yea	r, linear feet		350 feet
Timber culverts replaced during the With iron pipe—number				6 8 1
With timber—number  New bridges built during the year		****************	:	
Location.	Kind.	Material.	Month built.	Feet in length.
Mile post, 25.9	Plate girder	Iron	March	71

12,103,027

106.00 53.28 56.58

> \$0 49.606 00.649 00.907 00.877

#### ROLLING STOCK.

	umber.	Present esti- mated value.
Number of box freight cars	18	\$7,200 00 1,500
Total	23	\$8,700 00

What patterns of power brakes have you in use, and number of locomotives and cars with each? Westinghouse.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use?

Janney and Gould.

How are your passenger cars heated? Baker heater and steam.

#### MILEAGE, TRAFFIC, ETC.

Train mileage.		1-	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains			56,886 52,939 85,473
Total mileage of trains earning revenue			195,298
Passenger traffic.—Road all in State of	Michigan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	21 80,415		
Total number of passengers carried, earning revenue	80,436		
Number of passengers carried one mile		14.15	<b>\$</b> 0 87.911
Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			02.606 02.679 02.678
wangs tecophe het hussendet het mire tot att hassenders		••	
Freight traffic.—Road all in State of M	ichigan.		
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	13,375 200,531		
Total tons of freight carried, earning revenue	213,906		
Total mileage of through freight		1,417,750 10,685,277	

Total freight mileage or tons carried one mile\_\_\_\_\_

Average ton haul for all freight

Average amount received for each ton haul
Average receipts ton per mile, for through freight
Average receipts ton per mile, for local freight
Average receipts ton per mile, for all freight

# FREIGHT TRAFFIC MOVEMENT.—ROAD ALL IN STATE OF MICHIGAN.

# Company's material excluded.

G W	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this road Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	12,306	380	12,686	5.93
Flour	22,582	118	22,700	10.61
Other mill products	1,746 5,5×2	24 33	1,770	.83 2.62
Hay Tobacco	73	19	5,615	.04
Cotton	14,535		14,535	6.80
Cotton Fruit and vegetables	) 14,000		1 1	
Potatoes	} 7,787	287	8,024	3.75
Products of animals:				
Live stock	3,142	42	3,184	1.49
Dressed meats	46		46	.02
Other packing house products Poultry, game and fish	32	4	36	02
Politry, game and fish	36 119		36	.02
Wool Hides and leather	94	39	119 138	.06 .06
Products of mines:		1		
Anthresite coel	12,726	8,406	21,132	9.88
Bituminous coal	8,725	1,216	4,941	2.31
Coke	1 15	72	7 87	.04
Stone, sand and other like articles	429	890	1,319	.62
Products of forest:				
Lumber		4 700		42.00
Logs Shiugles	31,839	1,536	33,375	15.60
fanufactures:		.		
Petroleum and other oils	1,475	56	1,531	.72
Sugar	45	475	520	.24
Iroo, pig and bloom	4,454	18	4,472	2.09
Iron and steel rails	24		24	.01
Other castings and machinery	811	110	421	.20
Bar and sheet metal. Cement, brick and lime	2,609	13 373	19	.01
Agricultural implements	1,036	589	2,982 1,645	1.39 .77
Wagons, carriages, tools, etc.	826	172	1,043	.46
Wines, liquors and beers	109	17	126	80.
Household goods and furniture	226	92	818	.15
Merchandise	9,768	25,853	35,621	16.65
discellaneous:	10.044	94 457	07 000	10 22
Other commodities not mentioned above	10,944	24,455	85,899	16.55
Total tonnage	143,617	65,289	213,906	100

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company.

Terms—\$2,500 per annum for a minimum weight of 3,000 lbs. daily, carried entire length of read; excess weight at same rate per 100 lbs. Freight received at depot.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 105.60 miles. Western Union Telegraph Co.

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of Company.	General office.	Amount paid.
Armour Car Line	Chicago, III. Chicago, III. Chicago, III. Indianapolis, Ind. South Omaha, Neb.	53 2 25 2 11 25 70 1 88 1 71
Mather Horse and Stock Car Co.  Merchants' Despatch Transportation Co  National Despatch Line	Chicago, III. New York City, N. Y. St. Albans, Vt.	1 29 27 36 769 22
Chicago, Boston & Liverpool Refrigerator Line New York Despatch Refrigerator Line St. Louis Refrigerator Car Co. Swift Refrigerator Line Union Refrigerator Transportation Co.	Boston, MassSt. Louis, Mo.	49 36 1 04 2 35

STATE OF MICHIGAN, &ss. COUNTY OF WAYNE,

Almon B. Atwater, superintendent, and James H. Muir, accountant, of the Michigan Air Line Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. B.]

A. B. ATWATER, JAS. H. MUIR.

Subscribed and sworn to before me this 2d day of April, A. D. 1897.

[L. S.]

L. F. LANG,

Notary Public, Wayne County, Michigan.

OF THE

# MICHIGAN CENTRAL RAILROAD COMPANY,

For the year ending December 31, 1936.

[Filed March 81, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

Chairman, C. VANDERBILT, New York City.
President, H. B. LEDYARD, Detroit, Mich.
Vice President, E. D. WORCESTER, New York City.
Auditor, A. J. BURT, Detroit, Mich.
Treasurer, D. A. WATERMAN, New York City.
General Manager, H. B. LEDYARD, Detroit, Mich.
General Superintendent, R. H. L'HOMMEDIEU, Detroit, Mich.
Division Superintendents:

D. S. SUTHERLAND, Detroit, Mich.

O. F. JORDAN, Jackson, Micb.

W. J. MARTIN, Bay City, Mich.

J. H. SNYDER, Chicago, Ill.

J. B. MORFORD, St. Thomas, Ont.

Chief Engineer, A. TORREY, Detroit, Mich. Superintendent of Telegraph, E. E. TORREY, Detroit, Mich.

Local Treasurer, J. E. GRIFFITHS, Detroit, Mich.

General Passenger and Ticket Agent, O. W. RUGGLES, Chicago, Ill.

General Freight Troffic Manager, B. B. MIICHELL, Detroit, Mich.

General Counsel, ASHLEY POND, Detroit, Mich.

General Attorney, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

C. VANDERBILT, New York City.

W. K. VANDERBILT, New York City.

F. W. VANDERBILT, New York City.

H. B. LEDYARD, Detroit, Mich.

E. D. WORCESTER, New York City.

S. F. BARGER, New York City.

C. M. DEPEW, New York City.

ASHLEY POND, Detroit, Mich.

F. S. WINSTON, Chicago, Ill.

Terms expire, May, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 28, 1846.

Number of stockholders at date of last election: 1,485.

Number of stockholders in Michigan at same date: 28.

Amount of full paid stock held in Michigan at same date: \$116,900.

Date of annual meeting of stockholders: Thursday following first Wednesday in May.

Fiscal year of company ends December 31.

General offices of the company are located at New York City, Grand Central Station; Detroit, Mich., foot of Third street; Chicago, Ill., Monadnock Building.

GI	ENERAL I	EXHIBIT.	Debit	t. Credit.
Total earnings from operation				
Total expenses including taxes		·	\$10,892,349 9	0
Net income	i	\$660 40'	7,000 00 7,800 00	_ \$3,429,264 54
Rentals—Leased lines and Canada Souther Canada Southern proportion of net earning	n interest		\$1,067,800 0 1,326,765 0 296,474 2	13 14
Balance applicable to dividends				- 2,091,009 21 - 738,225 27
Balance for the year (deficit) Balance (profit and loss) last year.  Items not included in above, as follows: Income from sundry investments				_ \$7,152,979 66 39,685 84
Balance forward to next year			7,181,870 2	7
				0 \$7,192,665 00
ANALYS	IS OF CA	PITAL STOCK.		
Par value of shares		187,380	\$100 00 \$18 788 000 0	n
Total amount paid in, as per books of t				-
Paid in per mile of road owned by compan	=	-		
	• • • • • • • • • • • • • • • • • • • •			
ANALYSI	S OF DE	BT ACCOUNTS.		
	FUNDED 1	DEBT.		
Class, character and date of issue.	Rate of interest.		Where payable.	Amount outstanding.
Bunds, Michigan Central Railroad, proper				
Consolidated first mortgage, May 1, 1872 Consolidated first mortgage, Nov. 1, 1882	7≴ 5≴	1	New York City New York City	
Total Michigan Central proper				\$10,000,000 00
Bonds issued by the Michigan Central Rail road Company, accounts of respective leased lines:		·		
Grand River Valley R. R.: General first mortgage, Sept. 1, 1879. General first mortgage, March 1, 1886 Detroit & Bay City R. R.:	8% 8%	Sept. 1, 1909 Sept. 1, 1909	New York City New York City	500,000 00 1,000,000 00
Detroit & Bay City R. R.: General first mortgage, March 1, 1881 Kalamazoo & South Haven R. R.:	5%		New York City	
General first mortgage, Nov. 1, 1889	5%	Nov. 1, 1939:	New York City	700,000 00
Michigan Air Line R. R.: General first mortgage, Jan. 1, 1890	4%	Jan. 1, 1940	New York City	2,600,000 00
Total leased lines				\$8,876,000 00
Total funded debt				\$18,376,000 00
1	UNFUNDED	DEBT.		
For what incurred.	he same to	be funded or how	r liquidated?	Amount.
For miscellaneous				\$2,522,833 98

#### RECAPITULATION.

RECAPITULATION.		
Total funded debt, M. C. proper	0,000,000 00 2,522,833 98	
Total debt liabilities, M. C. proper	2,522,833 98	
Amount of debt liabilities per mile of road, 270.07 miles  Total amount of stock and debt, M. C. proper	46,368 85 1,260,833 98 115,750 86	
GENERAL BALANCE SHEET.—Dr.		
Construction account, includes amount expended, account construction of leased lines\$4 Other investments: Advanced on account of land purchased in construction of Detroit Belt Line Sundry securities	<b>2,490,129 63</b>	
Cash items: \$402,397 85	930,521 57	
Due from agents 202,632 13	605,029 98	
Other assets:         \$1,661,358 35           Materials and supplies.         \$1,661,358 35           Debit balances from companies and individuals.         1,131,164 72	2,792,523 07	
Total\$4	6,818,204 25	
CONSTRUCTION ACCOUNT.		
Michigan Central Railroad Co. \$3 Michigan Air Line. Grand River Valley R. R. Co. Jackson, Lansing & Saginaw R. R. Co. Kalamazoo & South Haven R. R. Co. Detroit & Bay City R. R. Co. Saginaw Bay & Northwestern R. R. Co. Bay City & Battle Creek & Sturgis B'y Co.	1,116,257 09	
Michigan Air Line	3,154,267 15	
Grand River Valley R. R. Co.	2,001,710 A/ 079 740 18	
Kalamazoo & South Haven R. R. Co.	815,610 24	
Detroit & Bay City R. B. Co.	3,744,297 78	
Saginaw Bay & Northwestern R. R. Co.	176,739 00	
Bay City & Battle Creek By Co.	7,171 75	
Batue Creek & Sturgis E y Co.	830 98	
Total		
GENERAL BALANCE SHEET.—Cr.		
Capital stock	8.738.000 00	
( Bonds Michigan Centrel R R proper		
	0,000,000 00	
Funded debt Bonds, Michigan Central R. R. proper 1 Bonds, issued account leased lines	0,000,000 00 8,876,000 00	
Unfunded debt:	0,000,000 00 8,876,000 00	
Unfunded debt: Interest unpaid.	0,000,000 00 8,376,000 00	
Unfunded debt: Interest unpaid	d,000,000 00 8,876,000 00	
Unfunded debt:  Interest unpaid	0,000,000 00 8,876,000 00	
Unfunded debt:         \$39,305 00           Interest unpaid         4,812 00           Notes payable         900,000 00           Youchers and accounts         488,555 19	0,000,000 00 8,876,000 00	•
Unfunded debt:         \$39,305 00           Interest unpaid         4,812 00           Notes payable         900,000 00           Youchers and accounts         488,555 19	d,000,000 00 8,876,000 00-	•
Unfunded debt:         \$39,305 00           Interest unpaid         4,812 00           Notes payable         900,000 00           Youchers and accounts         488,555 19	d,000,000 00 8,876,000 00	•
Unfunded debt:	0,000,000 00 8,876,000 00	
Unfunded debt:	0,000,000 00 8,876,000 00 2,522,833 98	•
Unfunded debt:       \$39,305 00         Interest unpaid       4,812 00         Dividends unpaid       4,812 00         Notes payable       900,000 00         Vouchers and accounts       488,555 19         Other liabilities (list as follows):       494,905 62         Pay rolls       494,905 62         Dividend No. 69, payable Feb. 1, 1897       374,760 00         Accrued interest of 1896 payable in 1897       280,496 17	0,000,000 00- 8,376,000 00- 2,522,833 98 7,181,370 27 6,818,204 25	
Unfunded debt: Interest unpaid: \$39,305 00 Dividends unpaid: 4,812 00 Notes payable 900,000 00 Vouchers and accounts: 488,555 19 Other liabilities (list as follows): 434,905 62 Dividend No. 69, payable Feb. 1, 1897 874,760 00 Accounted interest of 1896 payable in 1897 280,496 17 Profit and loss or income accounts	0,000,000 00 8,876,000 00 2,522,838 98 7,181,870 27	•
Unfunded debt: Interest unpaid. \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): Pay rolls 434,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accrued interest of 1896 payable in 1897 250,496 17 Profit and loss or income accounts  Total \$40.000	0,000,000 00- 8,376,000 00- 2,522,833 98 7,181,370 27 6,818,204 25	
Unfunded debt: Interest unpaid. \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): Pay rolls 434,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accorded interest of 1896 payable in 1897 250,496 17 Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT. PURCHASED BY PRESENT COMPANY.	0,000,000 00- 8,376,000 00- 2,522,833 98 7,181,370 27 6,818,204 25	
Unfunded debt: Interest unpaid \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts 488,535 19 Other liabilities (list as follows): Pay rolls 434,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accrued interest of 1896 payable in 1897. 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT, PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846.	0,000,000 00 8,376,000 00 2,522,833 98 7,181,370 27 6,818,204 25	
Unfunded debt: Interest unpaid. \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): Pay rolls. 494,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accorded interest of 1896 payable in 1897 250,496 17 Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment.	2,522,833 98 7,181,370 27 6,818,204 25	
Unfunded debt: Interest unpaid. \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): Pay rolls 434,905 62 Dividend No. 69, payable Feb. 1, 1897 874, 760 00 Accorded interest of 1896 payable in 1897 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment \$4, account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account account of construction \$4, account account account of construction \$4, account account account of construction \$4, account account account account of construction \$4, account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09	•
Unfunded debt: Interest unpaid. \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): Pay rolls 434,905 62 Dividend No. 69, payable Feb. 1, 1897 874, 760 00 Accorded interest of 1896 payable in 1897 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment \$4, account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account account of construction \$4, account account account of construction \$4, account account account of construction \$4, account account account account of construction \$4, account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09	•
Unfunded debt: Interest unpaid. \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): Pay rolls 434,905 62 Dividend No. 69, payable Feb. 1, 1897 874, 760 00 Accorded interest of 1896 payable in 1897 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment \$4, account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account of construction \$4, account account account of construction \$4, account account account of construction \$4, account account account of construction \$4, account account account account of construction \$4, account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account account	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09	•
Unfunded debt: Interest unpaid. \$39,305 00 Dividends unpaid 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): Pay rolls. 494,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accorded interest of 1896 payable in 1897 250,496 17 Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment.	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09	•
Unfunded debt: Interest unpaid: \$39,305 00 Dividends unpaid: 4,812 00 Notes payable 900,000 00 Vouchers and accounts: 488,555 19 Other liabilities (list as follows): 434,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accorded interest of 1896 payable in 1897. 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  FURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment. Amount expended since purchase, account of construction 2 Amount expended since purchase, account of equipment 3 Average cost per mile of road (not including sidings) 270.07 miles Proportion of cost for Michigan, 221 miles. 2  CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.	2,522,833 98 7,181,870 27 6,818,204 25 2,000,000 00 9,116,257 09 11,116,257 09 11,116,257 09 2,462,632 13	-
Unfunded debt: Interest unpaid: \$39,305 00 Dividends unpaid: 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): 434,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accrued interest of 1896 payable in 1897 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment Amount expended since purchase, account of construction 20 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.  Leased or proprietary roads. External company of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09	-
Unfunded debt: Interest unpaid: \$39,305 00 Dividends unpaid: 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): 434,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accrued interest of 1896 payable in 1897 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment Amount expended since purchase, account of construction 20 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 Amount expended since purchase, account of equipment 30 CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.  Leased or proprietary roads. External company of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties of the properties	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09 11,16,257 09 11,16,257 09 11,16,257 09 11,25,215 53 2,462,632 13	-
Unfunded debt: Interest unpaid: S39,305 00 Dividends unpaid: Notes payable	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09 11,116,257 09 115,215 53 5,462,632 13 ensions and w sidings. \$113,818 52	-
Unfunded debt: Interest unpaid: \$39,305 00 Dividends unpaid: 4,812 00 Notes payable 900,000 00 Vouchers and accounts. 488,555 19 Other liabilities (list as follows): 434,905 62 Dividend No. 69, payable Feb. 1, 1897 874, 760 00 Accounted interest of 1896 payable in 1897 250,496 17  Profit and loss or income accounts  COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment \$4000 and expended since purchase, account of construction \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000 and expended since purchase, account of equipment \$4000	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09 11,116,257 09 115,215 53 5,462,632 13 ensions and w sidings. \$113,818 52	-
Unfunded debt: Interest unpaid: \$39,305 00 Dividends unpaid: 4,812 00 Notes payable 900,000 00 Vouchers and accounts: 488,555 19 Other liabilities (list as follows): 434,905 62 Dividend No. 69, payable Feb. 1, 1897 374,760 00 Accrued interest of 1896 payable in 1897. 280,496 17  Profit and loss or income accounts  Total: COST OF ROAD AND EQUIPMENT.  PURCHASED BY PRESENT COMPANY.  When purchased: September 24, 1846. Original cost to present company, of road and equipment Amount expended since purchase, account of construction 32 Amount expended since purchase, account of equipment 35 Total cost to date of report 36 Average cost per mile of road (not including sidings) 270.07 miles Proportion of cost for Michigan, 221 miles  CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.  Leased or proprietary roads. Extended in the property account as above.	2,522,833 98 7,181,370 27 6,818,204 25 2,000,000 00 9,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,257 09 11,116,	•

ANALTSIS OF EARNINGS -IN STATE OF MICHIGAN.

PABBENGER BARKINGS.

	Local fares.	Through fares.	Total passen-	Express and baggage.	Majja.	Total.	Per train mile.	Per mile of road.
Main line	\$746,187 22	\$491,270 85	\$1,287,458 07	\$195,001 21	\$130,70T 67	\$1,563,166 96	4	\$7,078 15
Leased or proprietary roads; Michigan Air Line R R Grand River Valle) R R Jackson, Lansing & Saginaw R R. Kalamazoo A South Haven R R.	50,683 42 112,983 46 835,754 40 27,696 11	50 73 17,414 49 17,427 60	50,784 15 130,347 95 878,182 00 28,100 95	2,468 65 4,178 17 14,418 87 1,259 84	12,622 16 15,751 56 43,641 26 8,384 94	65,830 96 150,277 70 431,242 16 82,705 73		1, 795 50 1, 355 55 20 527 827 58
Detroit & Bay City R R Toledo, t anada Southern & Detroit RY Michigan Midhand & Canada R. R. Canada Southern Bridge Co.	173,020 91 50,677 36 4,721 08 1,266 20	4,600 39	125,000 126,000 127,41 128,000 127,41 128,000 128,11	11,805 70 6,967 01 122 94	28,348 08 18,016 96 103 86 103 86	215,275 08 150,793 51 5,748 82 1,370 06		1,358 87 3,190 U5 394 83 814 83
Saginaw Bay d Northwestern R. Z. Battle t reek d Storge R. y. Bay City & Battle Creek R.y. Detroit, Delray & Dearborn R. R.	28.28.28.28.28.28.28.28.28.28.28.28.28.2		######################################	8	1, 197 49 2,046 07 860 96	8,042 90 11,556 48 8,866 78 180 24		25 25 25 25 25 25 25 25 25 25 25 25 25 2
Total passenger department earnings	\$1,542,620 10	\$606,008.06	06 \$2,148,718 16	\$235,870 38	\$255,617 88	\$255,617.88 \$2,640,206.37	10 14	62,323 00

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S. C. C. C. C. C. C. C. C. C. C. C. C. C.	Local traffic.	Throngh traffic.	Total traffic.	Total.	Per train mile.	Per mile of road.
	\$8 995,088	\$1,779,084 20	\$2,680,024 OS	\$2,680,024 08	. 4	812,038 31
# : 1 1 # : 1 1 1 1 1 1	135,338 67 67,115 47 665,300 87 23,086 38	97,408 07 60,292 53 64,033 97 4,561 16	200 200 200 200 200 200 200 200 200 200	252,761 127,468 00 324 727,438 21,613 23 1,912	# 1 4 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6 1 # 1 6	2,183,47 1,520,56 2,258,70 699,93
	224,815 11,735 20 11,680 11	212,915 95 505,820 67	489,731 45 583,055 87 1,680 11 279 48	489,731 583,004 7,690,13 1,690,13		2,836 88 12,834 58 114 45 76 36
Saginaw Bay & Northwestern R. R. Battle Creek & Sturgie R'y Bay City & Battle Creek R'y Detroit, Delray & Dearborn R. R.	15,532 28 6,149 44 8,155 64	28.55 28.35 28.35	05.150 81.250 27.250 27.250 27.250	16,190 30 6,154 78 8,222 01	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	193 04 138 10 179 56
Total freight department earnings.	12,103,148 90 42,724,351 35	R,724,351 35	84,827,500 25	14,827,500 25	81 52	\$4,247 50

ANALYBIS OF EARNINGS.—ENTIRE LINES.

PAREDIGER BARNESSO.

	Loon! farse.	Throngh fares.	Total passenger fares.	Express and baggage.	Mails.	Total.	Per train	Per mile of road.
ain line	10 8268,978 51	90 16911994	11,590,609 57	\$250,651 56	\$168,009 59	\$0,000,271 0g	4	\$1,078 15
icultan Air Line R R. Mist & Northern Indiana R R. rand River Valley E E. school, Labeling & Saginaw R R. school, Labeling & Saginaw R R.	38,479 87 18,748 05 112,988 46 865,754 40 27,000 11	25125 88463	28,184 28,184 28,187 28,182 28,100 39,000 30,000	2 42 128 128 128 128 128 128 128 128 128 12	52 - 15 55 55 52 55 7 14 55 52 55 7 14 55 52 55 55 55 55 52 55 55 55 55 53 55 55 55 55 55 55 55 55 55 55 55 55 55	66,472,735 16,472,735 15,027,735 15,12,12,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,135 15,13		25 25 25 25 25 25 25 25 25 25 25 25 25 2
stroit & Bay City R. R. Medo, Unuada Scuthern & Detroit B'f handa Scuthern R'r an Canada) iobigan Midhand & Canada R. R. handa Scuthern Bridge Co	173,020 91 681,3417 44 681,367 07 4,728 08 1,366 20	25, 600 26, 256 364, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386, 750 386,	117,621 156,816 12,721 96,121 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721 96,721	11,305 70 8,604 96 115,555 29 122 29	2222 2222 2222 2222	Z15,275 G5 120,927 64 1,200,921 13 5,788 82 1,870 G6		1000 882 883 883 883 883 883 883 883 883 883
erinaw Bay & Northwestern B. B.  atti- Creek & Storgus R'y  ar Cit. & Hattle Creek B'y  biroit, Dairey & Dearborn B. B.	6,946 41 9,945 47 8,105 80 180 24	6 P 6 H 6 6 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7	9,945 9,945 9,105 1,105 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005 1,005	25	2,086 07 800 96	8,042 <b>90</b> 3,556 <b>48</b> 3,266 <b>78</b> 160 <b>24</b>	0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	aggs ares
Total passenger department earnings	\$2,415,867 B2	28	\$8,545,656 40	\$400,628.38	50 0FC '980S	\$4,853,525 63	90 1\$	\$2,650 76

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	Legal Traffic.	Through traffic.	Total traffic.	Total.	Per train mile.	Per mile of road.
Kain line and branches	11,621,516 47	61,797,687 56	41,797,687 56 88,419,154 08 43,419,154 08	\$9,419,154 OS	000000000000000000000000000000000000000	\$12,086 11
Leased or proprietary roads: Michigan Air Line E. E. Johiet & Northern Indiana B. R. Grand River Valley E. E. Jackson, Langing & Anginaw E. E. Kalamasoo & South Haven E. R.	16,288,78 81,735,78 78,247,05 60,780 12,882	01 02 04 04 04 04 04 04 04 04 04 04 04 04 04	245,980 58 119,915 09 127,406 00 729,834 94 27,647 42	245,000 2119,011 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019,015 2019	4	444 244 245 245 245 245 245 245 245 245
Detroit & Bay City R. R. Toled . ' acada Southern & Detroit B'y Canada Southern R'y (in Canada). Michigan Midland & Canada R. R. Canada Southern Bridge Co.	856,247 66 500,051 95 1,776,688 58 1,690 11 279 48	83,458 T0 136,601 85 1,772,656 17	450,781 45 726,758 90 8,549,296 70 1,690 11 279 48	450,731 45 726,783 60 8,549,240 70 1,690 11 270 48		200 200 200 200 200 200 200 200 200 200
Saginaw Bay & Northwestern B. B. Battle Creek & Storgis R'y Ray City & Battle Creek R'y Datroit, Delray & Dearborn B. B.	16, 190 30 6, 154, 76 8, 282, 07		06,190 06,140,0 07,140,0 07,000,0 07,000,0 07,000,0 07,000,0 07,000,0 07,000,0 07,000,0 07,000,0 07,000,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0 07,0	81.00 81.43 85 85 85 87 87 87 87 87 87 87 87 87 87 87 87 87		2005 2005 2005 2005
Total Indght department carnings	65,308,149 10 84,014 MIN 66 90,412,461 76 \$9,412,461 76	64,014 MT 66	90,412,461 76	\$9,412,461 76	25 15	\$0.181,28

Total transportation earnings, entire line		•	118.765.937 89
Total transportation earnings, entire line Transportation earnings per mile of road Transportation earnings per train mile		\$8,881 78 1 80	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Miscellaneous receipts from operating account. other than for transactions:	asportation,		
From other sources.			55,627 05
Distribution of miscellaneous earnings between main line and les	used or propri	etary roads	:
	Total mis- cellaneous. f	Proportion	
Company:	cellaneous. f	or Michigan.	•
Company: Michigan Central R. R. Michigan Air Line R. R. Joliet & Vorthern Indiana R. R. Grand River Vailey R. R. Jackson, Lansing & Saginaw R. R. Jackson, Lansing & Saginaw R. R. Detroit & Bay City R. R. Toledo, Canada Southern & Detroit R'y. Michigan Midland & Canada R. R. Canada Southern Bridge Co. Saginaw Bay & Northwestern R. R. Battle Creek & Sturgis R'y Bay City & Battle Creek R'y Canada Southern R'y (in Canada) Total earnings from operation of road	\$89,944 79 140 89	\$31,076 18 183 00	
Grand River Valley R. R.	121 <b>93</b> 288 45	238 45	
Jackson, Lansing & Saginaw R. R.	6,793 11	6,795 11	
Ralamazoo & South Haven R. R.	1.233.44	82 57 1 298 44	
Toledo, Canada Southern & Detroit R'y.	820 67	658 40	
Michigan Midland & Canada R. R.	1 00	1 00	
Saginaw Bay & Northwestern R. R.	17 49	17 49	
Battle Creek & Sturgis R'y	18 00	13 00	
Canada Southern R'y (in Canada)	5.964 78	1 00	
master and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			10 001 414 44
Total earnings from operation of road			\$10,021,019 <del>11</del>
Total earnings per mile of road		¥8,415 65 1 32	
Michigan Central R. R.		14,251,267 16	
Michigan Air Line R R.		298,734 70 977 994 15	
Jackson, Lansing & Saginaw R. R.		1,167,872 21	
Kalamazoo & South Haven R. R.		60,385 72	
Toledo, Canada Southern & Detroit R. R.		784.507 78	
Michigan Midland & Canada R. R.	• • • • • • • • • • • • • • • • • • •	7,469 98	
Canada Southern Bridge Co		24,250 69	
Battle Creek & Sturgis R'y		17,724 27	
Proportion of taxable earnings for Michigan: Michigan Central R. R. Michigan Air Line R R. Grand River Valley R. R. Jackson, Lansing & Saginaw R. R. Kalamazoo & South Haven R. R. Detroit & Bay City R. R. Toledo, (anada Southern & Detroit R. R. Michigan Midland & Canada R. R. Canada Southern Bridge Co. Saginaw Bay & Northwestern R. R. Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y. Detroit, Delray & Dearborn R. R.		7,199 85	
		190 24	
Total proportion of taxable sernings in Michigan		7.508.208.64	
Total proportion of taxable earnings in Michigan		7,508,208 64	
Total proportion of taxable earnings in Michigan		7,508,208 64	39,685 84
Total proportion of taxable earnings in Michigan		6,606 14	39,685 84
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings		6,606 14	39,685 84 813,861,299 78
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings  Total income from all sources		6,606 14	39,685 84 813,861,299 78
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings  Total income from all sources		6,606 14	39,685 84 818,861,299 78 7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings  Total income from all sources  Proportion of income for Michigan		6,606 14	39,685 84 818,861,299 78 7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCK Repairs of roadway	TURES.	6,606 14	39,685 84 813,861,299 78 7,808,208 64 \$1,048,784 30
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan	TURES.	6,606 14	39,685 84 813,861,299 78 7,508,208 64 
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan	TURES.	6,606 14	39,685 84 813,861,299 78 7,508,208 64 
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan	TURES.	6,606 14	39,685 84 813,861,299 78 7,508,208 64 
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan	TURES.	6,606 14	39,685 84 813,861,299 78 7,508,208 64 
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan.  Income other than from earnings  Total income from all sources.  Proportion of income for Michigan.  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCT	TURES.	6,606 14	39,685 84 513,861,299 78 7,508,206 64 
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCK Repairs of roadway	TURES.	6,606 14	39,685 34 513,861,299 78 7,508,208 64 
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCK Repaire of roadway. Renewals of rails Renewals of ties Repaire and renewals of bridges and culverts Repaire and renewals of fences, road crossings, signs and cattle graphing and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures Repairs and renewals of buildings and fintures	TURES.	6,606 14	39,685 34 513,861,299 78 7,508,208 64 21,048,784 30 92,688 85 262,622 39 156,656 42 147,461 78 166,572 41 5,854 64 19,128 81 2,348 36 19,429 00
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCT  Repaire of roadway.  Renewals of ties Repaire and renewals of bridges and culverts.  Repaire and renewals of bridges and culverts.  Repaire and renewals of bridges and fixtures  Repaire and renewals of boildings and fixtures  Repaire and renewals of docks and wharves  Repaire and renewals of tolegraph  Stationery and printing.	TURES.	6,606 14	39,685 34 513,861,299 78 7,508,208 64 21,048,784 30 92,688 85 262,622 39 156,656 42 147,461 78 166,572 41 5,854 64 19,128 81 2,348 36 19,429 00
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan.  Income other than from earnings  Total income from all sources.  Proportion of income for Michigan.  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCE  Repairs of roadway.  Renewals of rails.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle graphs and renewals of tooks and wharves.  Repairs and renewals of books and wharves.  Repairs and renewals of beligraph  Stationery and printing.  Other expenses  Total.  MAINTENANCE OF EQUIPMENT	TURES.	6,606 14	39,685 84 513,861,299 78 7,508,208 64 21,048,784 30 92,688 85 262,622 39 152,636 42 147,461 78 165,572 41 5,854 64 19,128 81 2,348 36 19,429 00
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan.  Income other than from earnings  Total income from all sources.  Proportion of income for Michigan.  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCE  Repairs of roadway.  Renewals of rails.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle graphs and renewals of tooks and wharves.  Repairs and renewals of books and wharves.  Repairs and renewals of beligraph  Stationery and printing.  Other expenses  Total.  MAINTENANCE OF EQUIPMENT	TURES.	6,606 14	39,685 84 513,861,299 78 7,808,208 64 
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan.  Income other than from earnings  Total income from all sources.  Proportion of income for Michigan.  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCE  Repairs of roadway.  Renewals of rails.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle graphers and renewals of tocks and wharves.  Repairs and renewals of books and wharves.  Repairs and renewals of beligraph  Stationery and printing.  Other expenses.  Total.  MAINTENANCE OF EQUIPMENT.	TURES.	6,606 14	39,685 84 313,861,299 78 7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan.  Income other than from earnings  Total income from all sources.  Proportion of income for Michigan.  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCE  Repairs of roadway.  Renewals of rails.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle graphers and renewals of tocks and wharves.  Repairs and renewals of books and wharves.  Repairs and renewals of beligraph  Stationery and printing.  Other expenses.  Total.  MAINTENANCE OF EQUIPMENT.	TURES.	6,606 14	39,685 84 313,861,299 78 7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan.  Income other than from earnings  Total income from all sources.  Proportion of income for Michigan.  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCE  Repairs of roadway.  Renewals of rails.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle graphers and renewals of tocks and wharves.  Repairs and renewals of books and wharves.  Repairs and renewals of beligraph  Stationery and printing.  Other expenses.  Total.  MAINTENANCE OF EQUIPMENT.	TURES.	6,606 14	39,685 84  \$13,861,299 78  7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCT  Repairs of roadway Renewals of reals Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle graphing and renewals of books and wharves Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses  Total  MAINTENANCE OF EQUIPMENT  Superintendence Repairs and renewals of locomotives Repairs and renewals of freight ears Repairs and renewals of freight ears Repairs and renewals of freight ears Repairs and renewals of work e-rs Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment	TURES.	6,606 14	39,685 84  313,861,299 78  7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STEUG  Repairs of roadway  Renewals of rails  Repairs and renewals of bridges and culverts  Repairs and renewals of tences, road crossings, signs and cattle graphers and renewals of tologes and fixtures  Repairs and renewals of books and wharves  Repairs and renewals of telegraph  Stationery and printing  Other expenses  Total  MAINTENANCE OF EQUIPMENT  Superintendence  Repairs and renewals of locomotives  Repairs and renewals of freight ears  Repairs and renewals of freight ears  Repairs and renewals of freight ears  Repairs and renewals of freight ears  Repairs and renewals of freight ears  Repairs and renewals of freight ears  Repairs and renewals of marine equipment  Repairs and renewals of marine equipment  Repairs and renewals of shop machinery and tools  Stationery and printing	TURES.	6,606 14	39,685 84  7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STRUCT  Repairs of roadway Renewals of rails Repairs and renewals of bridges and culverts Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle graphers and renewals of tolegraph  Stationery and printing Other expenses  Total  MAINTENANCE OF EQUIPMENT  Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight ears Repairs and renewals of passenger cars Repairs and renewals of freight ears Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Repairs and renewals of marine equipment Stationery and printing Other expenses	TURES.	6,606 14	39,685 84  313,861,299 78  7,508,208 64
Total proportion of taxable earnings in Michigan  Total taxable earnings per mile of road in Michigan  Income other than from earnings  Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES  MAINTENANCE OF WAY AND STEUG  Repairs of roadway  Renewals of ties  Repairs and renewals of bridges and culverts  Repairs and renewals of fences, road crossings, signs and cattle graphers and renewals of tologis and fixtures  Repairs and renewals of books and wharves  Repairs and renewals of tologis and fixtures  Repairs and renewals of tologis and fixtures  Repairs and renewals of tologis and fixtures  Repairs and renewals of tologis and fixtures  Repairs and renewals of tologis and fixtures  Total  MAINTENANCE OF EQUIPMENT  Superintendence  Repairs and renewals of locomotives  Repairs and renewals of freight ears  Repairs and renewals of freight ears  Repairs and renewals of freight ears  Repairs and renewals of marine equipment  Repairs and renewals of shop machinery and tools  Stationery and printing	TURES.	6,606 14	39,685 84  313,861,299 78  7,508,208 64

### CONDUCTING TRANSPORTATION.

Superintendence.		0140 449 11
Engine and roundhouse men. Fuel for locomotives Water sunnly for locomotives		\$149,442 11 943,522 31 975,391 22 49,015 6 34,587 5 4,717 6 590,566 77 219,398 31 448,957 12 226,458 44
Eugine and todad none men		840,022 30
Faei for locomotives		975,391 2
Water supply for locomotives. Oil, tallow and waste for locomotives		49.015.61
Oil tallow and wests for locomotives		94 597 89
Other and the feet to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco		4 747 6
Other supplies for locomotives.		4,111 0
Train service. Train supplies and expenses. Switchmen, flagmen and watchmen		<b>~690,566</b> 77
Train supplies and expenses		219,398 3
Switchmen flagmen and watchmen		AAR 057 16
Telegraph expenses.		190 AKO 4
Otal and a process of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the seco		220,900 90
Station service		226,458 41 855,742 7
Station supplies.		77,125 44
Car mileage—balance		422,628,39
These and damage		48 048 9
Tain de A a annua a		10,010 &
Station supplies Car mileage—balance Loss and damage. Injuries to persons		77,125 44 422,628 36 46,048 22 70,844 06 8,225 38
Clearing wrecks		8,225 30
Operating marine equipment		72,093 50
Clearing wrecks Operating marine equipment Advertising		TAX RAX K
Ontaids a consist		180,854 40
Outside Agencies		100,001 10
Kent of buildings and other property		560,190 50
Stationery and printing		75,118 02
Outside agencies Rent of buildings and other property Stationery and printing Other expenses		27,401 24
		,
<u>.</u>		
Total		\$6,281.472 75
		. ,,
GENERAL EXPENSES.		
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses Taxes		<b>679 400 0</b> 0
Calarino of slauka and attachents		\$72,400 00 96,540 02
OBTRIES OF CIBLES BUG SECONDUS.		20' 240 0g
General office expenses and supplies		5,651 09
Insurance		5,651 09 11,104 11
I.aw owners		58,422 91
Charles and a deliber (account of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th		6,870 95
Scattonery and binging (Reneral omoes)		0,010 80
Other expenses		74,003 59
Taxes		326,452 99
mara 3		
Total		\$645,945 66
RECAPITULATION OF EXPENSES. Per	cent of	
	cent of	
ex	penses.	A1 A00 T10 TT
Maintenance of way and structures	penses.	\$1,922,546 96
Maintenance of way and structures	penses.	\$1,922,546 96 1,542,384 53
Maintenance of way and structures	penses.	\$1,922,546 96 1,542,884 53 6,281,472,73
Maintenance of way and structures	penses.	\$1,922,546 96 1,542,384 54 6,281,472 73
ex	penses.	\$1,922,546 96 1,542,384 5\ 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.	penses.	\$1,922,546 96 1,542,384 5\ 6,281,472 73 645,945 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures	18.50 14.84 60.44 06.22	\$1,922,546 96 1,542,384 54 6,281,472 73 645,945 66 \$10,892,849 90
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22	
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.	18.50 14.84 60.44 06.22 100.00	
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 66,827 66	\$10,892,849 90
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 66,827 66	\$10,892,849 90
Maintenance of way and structures.  Mainvenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,327 65	\$10,892,349 90 \$10,892,349 90 \$10,892,349 90
Maintenance of way and structures.  Mainvenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,327 65	\$10,892,349 90 \$10,892,349 90 \$10,892,349 90
Maintenance of way and structures.  Mainvenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,327 65	\$10,892,349 90 \$10,892,349 90 \$10,892,349 90
Maintenance of way and structures.  Mainvenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,327 65	\$10,892,349 90 \$10,892,349 90 \$10,892,349 90
Maintenance of way and structures.  Mainvenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,327 65	\$10,892,349 90 \$10,892,349 90 \$10,892,349 90
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,892,349 90 \$10,892,349 90 \$10,892,349 90
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 282,353 54 270,201 10 1,184,727 89 47,004 81
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 576,088 81
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 576,088 81
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 576,088 81
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 576,088 81
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 505,068 20 424,379 19 14,549 29 19,745 46
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 282,353 54 270,201 10 1,184,727 89 47,804 81 505,088 21 505,088 21 14,549 29 19,745 46 117,438 56
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 505,088 31 505,088 11 14,549 29 19,745 48 117,433 55 7,274 64
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 282,353 54 270,201 10 1,184,727 89 147,727 89 145,469 29 19,745 46 117,433 55 7,274 64 4,156 94
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 505,088 31 505,088 11 14,549 29 19,745 48 117,433 55 7,274 64
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 282,353 54 270,201 10 1,184,727 89 147,727 89 145,469 29 19,745 46 117,433 55 7,274 64 4,156 94
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,327 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 505,068 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.  ———————————————————————————————————	18.50 14.84 60.44 06.22 100.00 88,327 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 505,068 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.  =  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run for trains earning revenue, 10,487,358 miles.  =  PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGA  Main line  Leased or proprietary roads; Michigan Air Line R. R. Grand River Valley R. R.  Jackson, Lansing & Saginaw R. R.  Kalamazoo & South Haven R. R.  Detroit & Bay City R R.  Toledo, Canada Southern & Detroit R'y. Michigan Midland & Canada R. R.  Canada Southern Bridge Co. Saginaw Bay & Northwestern R. R  Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y Detroit, Delray & Dearborn R. R.  Total proportion of expenses for Michigan.	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 505,068 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.  =  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run for trains earning revenue, 10,487,358 miles.  =  PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGA  Main line  Leased or proprietary roads; Michigan Air Line R. R. Grand River Valley R. R.  Jackson, Lansing & Saginaw R. R.  Kalamazoo & South Haven R. R.  Detroit & Bay City R R.  Toledo, Canada Southern & Detroit R'y. Michigan Midland & Canada R. R.  Canada Southern Bridge Co. Saginaw Bay & Northwestern R. R  Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y Detroit, Delray & Dearborn R. R.  Total proportion of expenses for Michigan.	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 505,068 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.  =  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run for trains earning revenue, 10,487,358 miles.  =  PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGA  Main line  Leased or proprietary roads; Michigan Air Line R. R. Grand River Valley R. R.  Jackson, Lansing & Saginaw R. R.  Kalamazoo & South Haven R. R.  Detroit & Bay City R R.  Toledo, Canada Southern & Detroit R'y. Michigan Midland & Canada R. R.  Canada Southern Bridge Co. Saginaw Bay & Northwestern R. R  Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y Detroit, Delray & Dearborn R. R.  Total proportion of expenses for Michigan.	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 505,068 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run for trains earning revenue, 10,487,358 miles.  PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGA  Main line  Leased or proprietary roads; Michigan Air Line R. R. Grand River Valley R. R. Jackson, Lausing & Saginaw R. R. Kalamazoo & South Haven R. R. Detroit & Bay City R R. Toledo, Canada Southern & Detroit R'y. Michigan Midland & Canada R. R. Canada Southern Bridge Co. Saginaw Bay & Vorthwestern R. R. Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y Detroit, Delray & Dearborn R. R.	18.50 14.84 60.44 06.22 100.00 88,827 65	\$10,392,349 90 \$3,323,749 39 232,353 54 270,201 10 1,184,727 89 47,804 81 505,068 20 424,379 19 14,549 29 19,745 46 117,433 55 7,274 64 4,156 94 490 64

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Detroit, Mich., to Chicago, Ill., May, 1852.

Tiom Donoid Mich. to Omongo, 12 , 22, 1		
MAIN LINE.		
	Miles.	Miles.
I- Michigan from Detroit Mich to State line	221.00	
In Michigan, from Detroit, Mich. to State line	43.00	
In Illinois, from Indiana State line to Kensington	6.07	
THE THURSDAY TEAM THRIBID CARAC HIPS AS WATCHING ASS.		
matal layath completed		270.07
Total length completed		210.01
Length of double track on main line		138.40
Total length of road belonging to this company		270.07
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above	221.00	
Aggregate length in Michigan of sidings, spurs and other tracks not above		
enumerated.	190.59	
Aggregate length of tracks in Michigan belonging to this company, comput	ed as single	
track		411.59
Gauge of track, 4 feet 8½ inches.		•
Proprietary or leased roads operated by this company	,	
Name, description and length of each:		In Michigan.
Chicago & Kensington	14.00	
Michigan Air Line R. R. Joliet & Northern Indiana R. R.	115.16	109.10
Joliet & Northern Indiana K. K.	45.00 88.79	*********
Grand River Valley R. R.  Jackson, Lansing & Saginaw R. R.	83.79 322.90	83.79 322.90
Jackson, Lansing & Saginaw R. R. Kalamazoo & South Haven R. R.	822.90 89.50	39.50
Datroit & Ray (Lity R. R.	155.00	
Detroit & Bay City R. R. Michigan Midland & Canada R. R.	14.68	14.68
Canada Sonthern Bridge Co.	3.66	3.66
Saginaw Bay & Northwestern B. B.	83.01	83.01
Battle Creek & Sturgis R'y.	33.80	33.80
Michigan Midland & Canada R. R. Canada Sonthern Bridge Co. Saginaw Bay & Northwestern R. R. Battle Creek & Sturgis R'y. Bay City & Battle Creek R'y Toledo, Canada Southern & Detroit R'y Detroit, Delray & Dearborn R. R. Canada Southern R'y (in Canada)	18.00	18.00
Toledo, Canada Southern & Detroit R'y	58. <b>9</b> 2	47.27
Detroit, Delray & Dearborn R. R.	4.84	
Canada Southern R'y (in Canada)	380.04	
	1 979 90	915.55
Total	1,372.30	910.00
Number of bridges and trestles in Michigan.		Aggregate
		length, feet.
Wooden bridges Stone bridges   boxes	7	372
Stone bridges { boxes	260	
Iron bridges.	51 60	655
Iron bridges	00	9,468 <b>90</b> 0
Combination bridges	∷ 600	
11 VVAUM \$140 MVV		~,000
Total	979	42,700
Draw bridges in Michigan.		
How many on your line		7
How many on your line.		
Where located, when built, and length of draw span?		Feet.
o St. Charles over Ded Direc rebuilt 1900		841/4
a, Paines, over Tittabawassee River, rebuilt 1888 b, South of West Bay City, over Saginaw River, rebuilt 1889 c, Bay City, over Saginaw River, rebuilt 1881 and 1895 c, East Saginaw, over Saginaw River, rebuilt 181 and 1896 c, Grosse Isle, over Detroit River, rebuilt 1824 and 1893	•••••••	991/4
b, South of West Bay City, over Saginaw River, rebuilt 1889		131
c, Bay City, over Saginaw River, rebuilt 1881 and 1895		189
c, East Saginaw, over Saginaw River, rebuilt in 1886		190
c, Grosse Isle, over Detroit Kiver, rebuilt 1884 and 1893.	·	34014
c, South of Woodmere, over Rouge River, rebuilt 1887		160
Character of structure:		
a, Iron plate girder on stone piers.		
b, Wooden Howe truss on wooden piers.		
c, Iron truss on stone piers.		
Material of which constructed:		
a, Iron and stone.		
b, Wood.		
c. Iron and stone.		
Height above water, and depth of water under bridge:		
From 15 to 30 feet.		

How awang, by engine or hand power?

1 by electric motor, 1 by steam, all others by hand.

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Approaches straight or curved?
Straight.
Do you require all trains to come to full stop before crossing a draw, and how are they signaled?
     Yes. By bridge tender.
                                                                            Crossings.—Railroad and highway.
What railroads cross your road at grade in this State, and at what locality?

Lake Shore & Michigan Southern Sailroad, at West Detroit, Albion, Kalamasoo, Jackson, Homer,
Three Rivers, south end of Junction yard, Detroit, Woodward avenue, Detroit, and Raton Rapide.

Wahash Railroad, at West Detroit and Delray.

Plint & Pere Marquette Bailroad, at Wayne Junction, Hast Saginaw, Otter Lake, Bay City, North
Saginaw and South Saginaw.

Detroit Monroe & Tolado Caillean at Detroit
    Detroit. Monroe & Toledo Railroad, at Detroit.
Grand Trunk Railway, at Detroit (Woodward avenue.)
Detroit, Grand Haven & Miswaukee Railroad, at Milwaukee Junction and Owesso.
Pontiac, Oxford & Port Austin Railroad, at Oxford.
   Pontiac, Oxford & Port Austin Bailroad, at Oxford.
Michigan Air Line Railroad, at Bochester and Jackson.
Chicago & Grand Trunk Bailway, at Lapser, Nichola, Charlotte, Lansing, Cassopelis and Jackson.
Port Huron & Northwestern Railroad, at Vassar and near East Saginaw.
Baginaw, Tuscola & Huron Railroad, at Reese.
Grand Rapids & Indiana Bailroad, at Kalamasoo and Wassepi.
Baginaw Bay & Northwestern Railroad at Pinconning.
Chicago & West Michigan Railroad, at Lansing and North Lansing.
Toledo, Ann Arbor & North Michigan Railroad at Owosso Junction and East Saginaw.
Cincinnati, Jackson & Mackinaw Railroad at Homer.
Chicago, Kalamasoo & Saginaw Railroad, at Hastings.
Toledo, Saginaw & Muskegon Bailroad, at Hastings.
Toledo, Saginaw & Muskegon Bailroad, at North Saginaw and West Bay City.
Midland & Hubbard Railroad, one-half mi e east of Midland.
B. ti. Peters R. B., near Grayling (Main Line & Twin Lakes Branch.)
Detroit & Mackinaw Railroad, at Pinconning.
What railroads cross your road either over or under your grade in this State, and where?
       Detroit, Laneing & Northern B. R., Flint & Pere Marquette B. R., Wabash R. R., and Canadian Pacific E. R., at Woodbridge street, Daimin.
Toledo Ann Arbor & North Michigan B. R. at Ann Arbor.
Flint & Pere Marquette B. R., at six miles west of Detroit.
Cincinnati, Wabash & Michigan R. R., at New Suffalo.
Cincinnati, Jackson & Mackinaw Rejiroad, at 2 miles east of Augusta.
        Cincinnati, Wabash & Michigan R. R., at Niles and two miles south of Niles.
Indiana & Lake Michigan B. R., at Galien.
At what crossings are interlocking and derailing switches in operation?

Lake Shors & Michigan Southern Railroad, at West Detroit, Woodward avenue, Detroit, Albion,

Woodware, Homer and Kalemasco.
     Flint & Pere Marquette Railroad, at Wayne Junction, one mile south of Saginaw, one mile north of
         Saginaw and Bay ('ity
     Grand Rapids & Isdiana Rathroad at Wasepi, Homer and Kalamasoo.
Chicago & Grand Trunk R. R., at Lapeer, Cassopolia, Nichola, Lansing and Jackson.
Cincinnati, Jackson & Mackinaw Railroad, at i., J. & M. crossings.
Chicago, Kalamazoo & Saginaw Railroad, at Hastings
     Detroit, Lansing & Northero Radroad, at Grand Rapids
     Cinclinati, Seginaw & Mackinaw Railroad, north and south of West Bay City, and north of Seginaw.
    Detroit, Grand Haven & Milwaukee Railroad, at Milwaukee Junction.
Wabash R R., at West De roit and Woodmere.
Grand Trunk R'y, at Milwaukee Junction and Woodward avanue, Detroit.
Chicago & West Michigan B. R., at Grand Junction.
Michigan Air Line R R., at Rochester Junction.
Pontiae, Oxford & Port Austin R. R., at Oxford
     R. G. Peters R. R., north of Grayling
 What pattern or patterns have you adopted?
Union Switch and Signal Co. (Swissvale, Pa.), pattern.
 Number of crossings of highways at grade in this State at which there are gates or
                                                                                                                                                                                                                      1,841
 flagmen...
Number of crossings at which there are electric or automatic signals
 What pattern or patterns in use?
Gatee—Safety Gate Co., Pneumatic Gate Co., Pennsylvania Steel Co., and Saginaw Gate Co.
Electric or automatic signals.—Pennsylvania Steel Co., Ross & Holden, Oriel Cross Alarm Co., and
         Hall Signal Co.
gride coop eloctor et chaldord coefigcitore)
Are your frogs and guard rails blocked as required by act 174, seedon laws of 1888.
 How are they treated?
Fitled with wood, spiked to ties.
```

### Stations.

			Employés.	•
9,49 6,20				umber of persons regularly employ officialsame in Michigan
Numbe	-		r list:	classify your employés as per followin
5			-	Baggagemen
8				Brakemen Conductors
4 5				Engineers Firemen
2,8				Laborers Bhopmen
8,6			***************************************	YardmenOthers
	=		REPAIRS AND RENEWALS.	
2,002			Fencing in Michigan.	low many miles of fencing have you?.
	:		omplete fence both sides o	ive the number of miles required to c and the counties in which needed:
18				Gladwin county
41				Crawford county
1				Otsego county
				Total miles required
	-		Road bed and track.	
			Thomas oder miles in mone	
2				umber of track sections in Michigan
1	4.66			umber of track sections in Michigan
646,0 451.0	4.66		n gang luring the year	verage lengths of sections, miles verage number of men in each section umber of new ties put in whole line umber of new ties put in track in Mic
646,0 451,0	4.66		gang. luring the year	verage lengths of sections, miles
646,0 451.0	4.66		gang. luring the year	verage lengths of sections, miles verage number of men in seach section umber of new ties put in whole line of umber of new ties put in track in Mic verage number of new ties per mile of ew rails put in track;
646,0 451.0	4.66		gang. luring the year	verage lengths of sections, miles verage number of men in each section umber of new ties put in whole line of umber of new ties put in track in Mic verage number of new ties per mile of ew rails put in track: Steel (tops 3.500) miles
646, 451,	26		gang	verage lengths of sections, milesverage number of men in each section umber of new ties put in whole line umber of new ties put in track in Mic verage number of new ties per mile of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of
646,0 451,0	26		rails  Bridges and culverts.	verage lengths of sections, miles verage number of men in each section umber of new ties put in whole line of umber of new ties put in track in Mic verage number of new ties per mile of lew rails put in track: Steel (tons 3,500) miles
646, 451, 6	28	par feet)	a gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In gang. In g	verage lengths of sections, miles verage number of men in each section umber of new ties put in whole line umber of new ties put in track in Mic verage number of new ties per mile of lew rails put in track: Steel (tons 3,500) miles Total miles of track laid with new mount of treatle work replaced with timber culverts replaced during the ye With iron pipe.
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646.451,4	28	par feet)	a gang laring the year higan of road  rails  Bridges and culverts. earth during the year (linear:	verage lengths of sections, milesverage number of men in each section umber of new ties put in whole line umber of new ties put in track in Mic verage number of new ties per mile of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work replaced with imber culverts replaced during the work in the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the work of the wo
340 ft. 66 ft.	Month built,	Material.	rails  Bridges and culverts. earth during the year (linear:  Mar:  Kind.  Deck plate girder.	Total miles of track laid with new mount of trestle work replaced with imber culverts replaced during the y With iron pipe
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### ROLLING STOCK.

	Number.	Present esti- mated value.
Number of locomotives more than 30 tons weight, exclusive of tender Number of locomotives of 20 to 30 tons weight, exclusive of tender	409 52	\$2,872,187 00 172,500 00
Total	461	\$3,044,687 00
Number of passenger cars—8 wheel, including official cars Number of passenger cars—8 wheel, including official cars Number of express and baggage cars Number of box freight cars Number of stock cars Number of platform cars Number of ore cars Number of ore cars Number of conductors' way cars	17 245 110 8,295 1,039 3,108 334 258	\$181,000 00 \$13,200 00 234,400 00 2,806,×75 00 303,900 00 701,025 00 83,500 00 113,850 00
Other cars as follows:       1         School car (air brakes)       1         Boarding       34         Hand derrick       4         Steam derrick       3         Pile driver       2         Steam shovel       6         Snowplow       13         Rail saw       1         Tool cars       83         Stone cars       2         Oil tanks       42	191	188,000 00
Total		\$5,875,850 00
Number of locomotives equipped with power brakes	896 872 5,02	
What patterns of power brakes have you in use, and number of locomotives an American steam and Westinghouse.  Cars—Westinghouse, 5,397; locomotives—Westinghouse, 348; American steam		h each?
Are your freight cars being equipped with automatic couplers as required by a of 1885, as amended by act No. 88, session laws of 1887? Yes.	et No. 147,	session laws
What pattern or patterns have you adopted for use? Gould.		

How are your passenger cars heated? Hot water and steam.

### MILEAGE, TRAFFIC, ETC.

Train mileage.			
			n Michigan. 2,610,057 8,172,995 855,818
Total mileage of trains earning revenue		10,487,858	6,138,865
Passenger traffic.—Entire lines	). Number.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	220,467 2,848,592		
Total number of passengers carried, earning revenue	2,564,059	•	
Number of passengers carried one mile		60.96	\$1 38 02.0295
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			02.4008 02.2682

### Passenger traffic.—In State of Michigan.

Number of local passengers carried, earning revenue	120,474 180,400		
Total number of passengers carried, earning revenue 2,	100,874		
Number of passengers carried one mile 90, Average distance carried Average amount received from each passenger Average receipts per mile for through pas-engers		48.10	\$1 02 01.584
Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers			02.886
Average receipts per passenger per mile for all passengers			02.782
Freight traffic.—Entire lines.			-
	Tons.	Miles.	Rate.
	23,439 52,881		
Total tons of freight carried earning revenue	76,270		
Total mileage of through freight  Total mileage of local freight	777	,661 ,725 ,589 ,796	
Total freight mileage or tons carried one mile	1,480	,251,521	
Average ton haul for through freight  Average ton haul for local freight  Average ton haul for all freight  Average amount received for each ton haul.  Average receipts ton per mile for through freight  Average receipts ton per mile, for local freight.  Average receipts ton per mile for all freight.			\$1 29 00.515 00.768 00.636
Freight traffic.—In State of Michigan.			
Number of tons of through freight carried, earning revenue 2, Number of tons of local freight carried, earning revenue 2,	357,894 82,249		
Total tons of freight carried, earning revenue	39,643		
Total mileage of through freight Total mileage of local freight Total freight mileage or tons carried one mile Average ton haul for through freight. Average ton haul for local freight Average ton haul for all freight Average amount received for each ton haul	247 669	,708,050 ,517,340 ,220,390 148 86 117	<b>\$0 84</b>
Average receipts ton per mile, for through freight.  Average receipts ton per mile for local freight.  Average receipts ton per mile, for all freight.			00.646 00.850 00.721

### FREIGHT TRAFFIC MOVEMENT.—ENTIRE LINES.

### Company's material excluded.

a	Freight originating	Freight re- ceived from connecting	Total freigh	it tonnage.
Commodity.	on this mad	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain	289,914	877,622	667,536	9.17
Flour Other mill products	108,898 63,648	97,089 44,409	205,987	3.83 1.48
Hay	72,044	50.409	108,057 122,458	1.68
Tobacco	72,000 886	7,487	8,823	0.11
Cotton	880	51,944	51.944	0.70
Fruit and vegetables	85.811	75,254	160,565	2.20
Fruit and vegetables Potatoes and other agricultural products	85,811 66,712	42,155	108,867	1.50
Products of animals:				
Live stock	67,010 120,585	188,658	200,668	2.75
Dressed meats	120,585	111,986	282,571	8.20
Poniter come and fich	95,299 4,189	97,108 4,820	192,407	2.64 0.12
Wool	2,100 2,243	4,466	8,959 6,709	0.09
Dressed meats Other packing house products Poultry, game and flah Wool Hides and leather	9,420	18,521	22,941	0.82
Products of mines:				
Anthracite coal		458,720	458,720	6.30
Bituminous coal  Coke and charcoal		717,290	717,290	9.85
· Coke and charcoal	12,589	19,089	81,678	0.44
Stone and and other like anti-les	288,871	9,015 77,489	9,015	0.12
Ores. Stone, sand, and other like articles. Salt.	58,787	18,177	310,860 71,914	4.27 0.98
Products of forest:				
Lumber	384,181	185,479	569,660	7.89
Logs and other forest products	699,865	136,187	836,052	11.49
fanufactures: Petruleum and other oils	100 000	110 701	997 994	
Sugar	109,090 11,185	118,781 70,026	227,821 81,211	8.18 1.12
Iron, pig and bloom	43.271	68,664	110 005	1.51
Iron and steel rails	5.604	8,142	110,985 18,746	0.19
Other castings and machinery	25,924	24,508	50,488	0.69
Bar and sheet metal	30,258	43,085	50,482 78,843	1.01
Coment, brick and lime	90.210	47.548	86.762	1.19
Agricultural implements Wagons, carriages, tools, and other m'f'rs. Wines, liquors and beers Household goods and furniture	10,606	10,482 252,284	21.0328	0.29
Wagons, carriages, tools, and other m'f'rs	498,597	252,281	750.881	10.89
Wines, liquors and beers	12,653	16,885	29,488	0.41
	16,801	13,267	29,568	0.41
discallaneous: Other commodities not mentioned above	320,789	377,080	697,869	9.50
Total tonnage	3,492,349	3,783,921	7,276,270	100

### FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

### Company's material excluded.

2 11	Freight	Freight received from connecting		ght tonnage.	
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	245,185	302,657	547,842 175,876	9.54	
Flour	105,504	69,872	175,876	8.00	
Other mill products	48,020	42,271	90,291	1.57	
Нау	44,012	40,505	84,517	1.47	
Tobacco	808	7,367 49,094	8,175	0.14 0.86	
Cotton		49,094	49,094	2.51	
Cotton Fruit and vegetables Potatoes and other agricultural products	78,686 54,268	70,455 48,865	144,141 98,138	1.71	
Products of animals:					
Live stock	66,899	101,691	168,590	2.94	
Dressed meats	104,922	79,228 91,988	184,150 170,497	3.22 2.97	
Other packing house products.  Poultry, game and fish	78,509 8,373	4,274		0.18	
Wool	1,909	4,118	7,647 6,027	0.10	
Wool Hides and leather	7,841	11,400	19,241	0.34	
Products of mines:					
Anthracite coal		800,968 688,912	300,968 683,912	5.24	
Bituminous coal	j <del></del>	688,912	688,912	11.92	
COKA ADO CDATGOAL	0.404	17,547	26,001	0.45	
Ores	135,849	8,835 47,608	8,835 183,457	0.15 3.20	
Ores Stone, sand and other like articles Salt	51,601	12,565	64,166	1.12	
Products of forest:			}		
Lumber Logs and other forest products	366,593 617,178	160,710 119,482	527,805 736,660	9.19 12.88	
Manufactures:					
Petroleum and other oils	88,636	114,165 50,268	197,801 61,203	8.45	
Sugar	10,935 39,133	50,268	61,208	1.07	
Iron, pig and bloom Iron and steel rails Other castings and machinery	4,297	65,240 7,622	104,878 11,919	1.89 0.22	
Other costings and machiness	24,240	20,598	44,833	0.22 0.78	
Bar and sheet metal	16.575	36,872	59 047	0.10	
Cement, brick, and lime	95 794	87,578	52,947 78,297	1.28	
Agricultural implements	85,724 9,712	9.638	19,850	0.84	
Wagons, carriages, tools, and other manufac-	, ,,,,,,,	,,	10,000	0.04	
Wagons, carriages, tools, and other manufac- tures. Wines, liquors, and beers	821,892	238,775	560,667	9.77	
Wines, liquors, and beers	7,740	13.684	21.424	0.87	
Household goods and furniture	18,751	10,610	24,361	0.41	
Miscellaneous: Other commodities not mentioned above	59,535	222,908	282,448	4.90	
Other commodities not manifolist 80044	50,000	265,905	606,140	4.30	
Total tonnage	2,641,783	3,097,860	5,789,648	100	

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Company do a business over the lines of the Michigan Central Railroad Company, for which the following rates of compensation are paid, with the guarantee that said compensation will amount to not less than \$22,400 per month.

On all tonnage carried.	Pay on local merchandise.  Per cwt.	Pay on through or foreign merchandise. Per cwt.	Pay on all produce.  Per cwt.
1 to 10 miles  11 to 32 "  33 to 50 "  51 to 76 "  77 to 100 "  101 to 120 "  121 to 145 "  146 to 175 "  176 to 255 "  256 to 275 "  276 to 300 "  511 to 650 "	\$0 15 15 20 25 30 35 45 50 60 65 75 80	\$0 10 15 15 20 25 30 35 40 50 60 65 75	\$0 10 15 15 20 25 30 35 40 50 50 50

### Telegraph.

Number of miles of telegraph on your road, and to whom does it balong?	
Michigan Central R. R.	Miles. 1.284.10
Michigan Central R. R. M. C. R. R. & Western Union Telegraph Co	1,284.10 279.00 5,497.54
Canada Southern R'y Great Northwestern Telegraph Co.	1.168.71
	8,576.95

### TRANSPORTATION COMPANIES.

### Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Pullman Palace Car Co., Chicago, Ill. 837 08

### ADDITIONAL QUESTIONS.

### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Cannot furnish this information; the amount, however, is small.

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### KILLED.

January 3, Jos. Causley, switchman, Bay City. Stepped in front of engine; Carelessness. January 28, Albert Doane, trespasser, Gaylord. Crossing track; trespasser. February 2, unknown man, trespasser, Niles. Walking on track. February 10, Geo. Service, trespasser, Niles. Walking on track. March 9, Steve Lillis, brakeman, Detroit. Lumber falling on him; accidental.

April 20, Frank Foster, conductor, Ypsilanti Fell under care; lack caution.
April 28 L. P. Oldfield, passenger, Denmark Junction Fell off train; lack caution.
May 4 John Tobia switchman, Bry City Jumped off train; lack caution.
May 5, Fred Plander trespasser Battle Creek Crawled under moving train.
June 1, Frank Mitchell trespasser, Lansing Walking on track.
June 27, Frank Howard, trespasser, Vpsilanti Swalling ride.
July 5 unknown man, trespasser Ann Arbor. Struck by train.
July 5 Chas Wersing trespasser Reese Struck by train.
July 30, asknown boy, trespasser, Jackson Junction. Struck by train.
August 3, 4 Tenbrook, trespasser, Marsball. Driving on track.
August 22, nuknown man, trespasser, Bedford. Struck by train.
September 12, unknown man, trespasser, Vasser. Straining ride.
September 12, unknown man, trespasser, Vasser. Straining ride.
September 18, taknown man, trespasser, Vasser. Straining ride.
October 19, D. Pankey (boy), trespasser, Vasser. Jumping on track.
December 28, Jos. Broughton, Jackson. Driving across track; carelesmess.

### EMJURED.

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January 23, Jun Davis, car repairer Mackinaw Car wheel fell on his foot; lack caution. January 24, C. E. Johnson, brakeman, Bives Junction. Coupling, carelessness. February 14. Fred Knox, Wassey. Driving across track, lack of caution.
        February 15, Fred Martin Saginaw Driving across track, accidental.
February 15, Louis Martin, Saginaw Driving across track, accidental.
February 15, Louis Martin, Saginaw Driving across track, accidental.
February 15, Edward Martin, Saginaw Driving across track, accidental.
February 15, Ourge Bordeman, Saginaw Driving across track, accidental.
February 26, Hurt French, trespasser, Detroit Walking on track,
February 26, Hurt French, trespasser, Wayne. Walking on track,
February 26, Jas. Dixle trespasser, Wayne. Walking on track,
March 5, T. Howes, brakeman Rives Junction Fell off car lack caution.
March 7, E. B. Volght brakeman Popularity Coupling carelessness.
March 9, M. Gregory brakeman, Battle Creek, Fell off train, lack caution.
March 13, J. 15, Martin, awitchman, Junction Landy, Longling, carelessness.
      March 9, M. Gregory brakeman, Saitle Creek. Fell off train, lack caution.
March 13, J. G. Martin switchman Junction hards. Coupling, carelemness.
April 12, Moses Strong, trespasser, Rochester. Stealing ride.
April 13, F. S. Long, passenger. Detroit. Attempted t. jump on train while in motion; carelegness.
April 15 unknown man, trespasser Otter Lake. Walking on track.
June 6. Peter Rugoskie, laborer, Hauptman. Working on roal-train; lack caution.
July 15, Thomas Sowles, brakeman, Leslie. Struck by ear. lack caution.
July 15, Thomas Sowles, brakeman, Detroit. Coupling carelessness.
August 5, Isaac Dent, switchman, Detroit. Fell off car, lack caution.
August 7 Wm. Rex. trespasser, Junction Yards. Tree falling on him.
August 5 July Sherman, trespasser, Junction Yards. Coupling lack caution.
August 11, H. W. Juhason brakeman, Mackings. Fell off hand car. lack caution.
    August 11 H W Johnson brakeman Junction vards Coupling lack caution.

September 2, R McLoyun, tresposser. Detroit Jumping on cars.

September 3, W kline, brakeman, Three Rivers Fell off train, lack caution.

August 13. Harry Bean, brakeman, Massin Fell off train, lack caution.

August 5, Wm Henderson, brakeman Bay City Junction Coupling; carelessness.

September 9 Ioa Barlaw brakeman, Monroe. Coupling carelessness.

September 11, Jun. Swarts, brakeman, Monroe. Coupling; carelessness.

September 13, J Shields switchman Grand Rapi is Coupling carelessness.

September 15, Wm Green, switchman Saginaw Coupling carelessness.

September 15, Wm Green, switchman Bayinaw Coupling carelessness.

September 15, Wm McCormick passenger West Bay City Fell off train; carelessness.

September 25, B Wmchell, brakeman, Bay City. Log fell off train; accidental.

September 25, Wm Nehan, switchman Saginaw Fell from train; lack caution, September 25, Wm Nehan, switchman Saginaw Fell from train; lack capation, September 25, Wm Nehan, switchman Saginaw Fell from train; lack capation, September 25, Wm Nehan, switchman Saginaw Fell from train; carelessness.

October 1, J Waish switchman, Junction Yards Jumping train; carelessness.

October 1 W E Cornell, passenger Oxford Getting on train carelessness.

October 3 H Beau Elan Struck by telegraph signal seck caution.
October I. W. E. Cornell, passenger Oxford Getting on train carelessness.
October B. H. Beau E. Ish. Struck by telegraph signal seck caution.
October B. F. E. Parsons, brakeman, Indian River Falling off var; lack caution.
October B. T. J. Tom suson, traspasser. Kasamazon. Steafing ride
October B. W. Fitzgerald, switchman, Bay City Junction. Jumping off train; lack caution.
October B. Frank Holly, switchman Mackinas Coupling lack caution.
October B. Frank Holly, switchman Mackinas Coupling lack caution.
October B. Junc Auga's trespasser Interior Varis Fellow car lack caution.
October B. Chas. Cushaway, brakeman, Aiger. Coupling; carelessness.
October B. C. Holly, brakeman, Mackinas. Falling off car; lack of caution.
November B. Richards, trespasser, Jackson. Braaling ride.
November B. Randall, brakeman, Jordans. Fell from train; lack of caution.
November B. Randall, brakeman, Bordans. Fell off hand car; carelessness.
November B. G. Kull, trespasser, Baginas. Walking on track.
December B. Thompson, sectionman, Bushville. Struck by train; carelessness.
December C. T. Caseidy, switchman, Junction yards. Fell off car; lack of caution.
December B. Frank Bowen, passeoger, Rives Junction, Trunk fell on him; accidental,
December B. Frank Bowen, passeoger, Rives Junction. Trunk fell on him; accidental,
     December 9, Frank Bowen, passenger, Rives Junction. Trunk fell on him; a December 11, J. Johnson, switchman, W. Bay City. Ban nail in foot. December 13, M. Herux, switchman, W. Bay City. Link broke; accidental. December 14, Jas. Friend, trespassor. Vanderbilt. Jumping on train. December 14, H. Delarge, trespassor, Detroit. Struck by train.
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### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed. Inju		Killed.		Injured.	
Causes of accident.	Passengers,	Employés.	Others.	Passengers.	Employée.	Others.
Coupling cars. Falling from traine	1	8		1 2	14 12 2	
Highway crossings Miscellaneous Overhead obstructions Trespassers on trains		2		1	12 1	- <b></b>
Trespassers on tracks			14			
Total	1	6	18	4	41	1

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	5
Number of persons injured during the year	3
Number of casualties purely accidental li Number resulting from lack of caution, carelessness, or misconduct 4	)
Number resulting from lack of caution, carelessness, or misconduct	ţ
Trespassers and tramps killed or injured	J

### CLASSIFICATION OF EMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Brakemen	8	22	25
Laborers Yardmen. Not classified above	2	1 12 5	1 14 5
Total	6	40	46

## STATE OF MICHIGAN, }88.

H. B. Ledyard, president, and A. J. Burt, auditor, of the Michigan Central Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. B.]

Signed,

H. B. LEDYARD, President, A. J. BURT, Auditor.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

[L. S.]

JOHN F. PETERS, Notary Public in and for Wayne Co.

OF THE

## BATTLE CREEK & STURGIS RAILWAY COMPANY,

For the year ending December \$1, 1896.

[Filed March 19, 1897.]]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

### DIRECTORS.

E. C. NICHOLS, Battle Creek, Mich.
C. VANDERBILT, New York City.
E. D. WOBCESTER, New York City.
H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
J. Burt, Detroit, Mich.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 14, 1889. Date of annual meeting of stockholders: First Wednesday in June. Fiscal year of company ends December 31. General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is owned and the road is operated part by the Lake Shore & Michigan Southern and part by the Michigan Central Railroad Companies.

Amount authorised by charter or articles of association	\$100 00	{	1,000,000 00
Average price rec-ived per share	100	<b>\$</b> 500,000 00	
Total amount paid in as per books of the company			<b>\$500,000 00</b>
Paid in per mile of road owned by company, 41 miles			12,195 12

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out standing.
First mortgage, Dec. 1, 1889	3%	Dec. 1, 1989	New York City	\$500,000 00
1	RECAPITUI	ATION.		
Total funded debt				\$500,000 0
Total debt liabilities				
Total amount of stock and debt				1,000,000 00 24,390 24
INTERES	T ON THE	FUNDED DEBT.		
What is the amount of same due each year. Was it paid for the last year? Yes.				\$15,000 00

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

The road was built by a former company, the records of which cannot be found, making it impossible to furnish this information.

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January, 1889.

MAIN LINE.		
	Miles.	Miles.
Length completed in Michigan, Battle Creek to Findley, operated by M. C. R. B.	88.80	
Length completed in Michigan, Findley to Sturgis, operated by L. S. & M. S. R.y.	7.20	•
Total length completed		41.00
Branches.		
Total length of road belonging to this company	41.00	41.00 4.01
Same in Michigan	4.01	
Aggregate length of tracks belonging to this company, computed as single track		45.01
track	••••	45.01
Gauge of track, 4 feet 8% inches.	=	

## STATE OF MICHIGAN, } 88.

H. B. Ledyard, president, A. J. Burt, secretary, of the Battle Creek & Sturgis Bailway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed, [L. S. OF R. R.]

H. B. LEDYARD, President. A. J. BURT, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1897. JOHN F. PETERS.

Notary Public in and for Wayns Co. [L. S.]

#### OF THE

### BAY CITY & BATTLE CREEK RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

### DIRECTORS.

C. VANDERBILT, New York City.
E. D. WORCESTER, New York City.
H. B. LEDYARD, Detroit, Mich.
HUGH MCMILLAN, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENEY RUSSEL, Detroit, Mich.
A. J. BUET, Detroit, Mich.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 14, 1889. Date of annual meeting of stockholders: First Wednesday in June. Fiscal year of company ends, December 31. General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is owned and the road operated by the Michigan Central Railroad Company,

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares Average price received per share Number of shares issued	3,000	\$100 00 100 00	\$300,000 00	\$1,000,000 00
Total amount paid in, as per books of the company Paid in per mile of road owned by company, 18 miles				300,000 00 16,666 66

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage, Dec. 1, 1889	3%	Dec. 1, 1989	New York City	\$250,000 00

#### RECAPITULATION.

Total funded debt	\$250,000 00 250,000 00 550,000 00 80,555 54
INTERRST ON THE FUNDED DEBT.	
What is the amount of same due each year	\$7,500 00
The se part to the short out! Add.	

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road, and branches built by company.

This road was built by a former company, the records of which cannot be found, making it impossible to furnish this information.

### DESCRIPTION OF BOAD.

Date when the road was opened for use between its present termini: West Bay City to Midland.

MAIN LINE. Miles.	Miles
Length completed in Michigan 18.00 Total length of road belonging to this company Aggregate length of sidings, spurs, and other tracks not above enumerated	
Aggregate length of tracks belonging to this company, computed as single track.  Same in Michigan	20.41

Gauge of track, 4 feet 81/2 inches.

## STATE OF MICHIGAN, 88.

H. B. Ledyard, president, and A. J. Burt, secretary, of the Bay City & Battle Creek Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

H. B. LEDYARD, President, A. J. BURT, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D., 1897.

[L. s.] JOHN. F. PETERS,

Notary Public in and for Wayne Co.

OF THE

### CANADA SOUTHERN BRIDGE COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York, N. Y.
Secretary and Treasurer, CHARLES F. COX, New York, N. Y.
Transfer Agent, HENRY B. AYERS, New York, N. Y.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York, N. Y.
WILLIAM K. VANDERBILT, New York, N. Y.
JAMES TILLINGHAST, Buffalo, N. Y.
SAMUEL F. BARGER, New York, N. Y.
CHARLES F. COX, New York, N. Y.
EDWIN D. WORCESTER, New York, N. Y.
EDWIN A. WICKES, New York, N. Y.
CHAUNCEY M. DEPEW, New York, N. Y.
HENRY B. LEDYARD, Detroit, Mich.
Term expires June, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: Consolidated, August 20, 1873. Number of stockholders at date of last election: 16. Number of stockholders in Michigan at same date: 3. Amount of full paid stock held in Michigan at same date: \$6,000 (60 shares). Date of annual meeting of stockholders: First Thursday after first Wednesday in June. Fiscal year of company ends, December 31. General offices of the company are located at Detroit, Mich.

### REMARKS:

The stock is controlled by the Canada Southern Railway Company, and the road, bridge, etc., are operated by the Michigan Central Railroad Company as part of the Canada Southern system of roads, under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern companies.

Amount authorized by charter or articles of association			1,500,000 00
Par value of shares. Average price received per share	\$100 00 100 00		, ,
Number of shares issued	4,500	e4E0 000 00	
Amount paid in on common			
Total amount paid in as per books of the company			450,000 00
Paid in per mile of road owned by company, 3.66 miles			122,950 82

Gauge of track, 4 feet 8% inches.

### ANALYSIS OF DEBT ACCOUNTS.

		FUNDED	DEBT,	•	
Class, character and date of i	issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mort. coupon bonds dated F	eb. 1, 1874	7%	Feb. 1, 1904	New York, N.Y.	\$1,000,000 00
Total funded debt				• • • • • • • • • • • • • • • • • • • •	\$1,000,000 00
	1	UNFUNDED	DEBT.		
For what incurred.	Is t	he same to	be funded or ho	w liquidated.	Amount.
For miscellaneousFor current balances					\$1,540,000 00 162,478 89
Total unfunded debt			•		\$1,702,478 89
Total funded debtTotal unfunded debt.		RECAPITUL			\$1,000,000 00 1,702,478 89
Total debt liabilities					\$2,702,478 89
Total amount of stock and debt					3,152,478 89
	INTERES	ON THE	FUNDED DEST.		
What is the amount of same due	each year.				\$70,000 00
Was it paid for the last year?					
If interest is in default state the coupons due 1875 to 1896, inclusi	years and ive, at \$70,	amounts a 000.00 per	s follows: annum.		
c	OST OF 1	ROAD AN	D EQUIPMENT	٠.	
Total cost for constructi	on and eq	uipment oj	f road and branc	hes built by compar	ıy.
Total expended for construction					\$1,780,977 05
Proportion of cost of construction	n for Mich	dgan: Al	1.		
	DESC	RIPTION	OF ROAD.		
Date when the road and bridge w September, 1873.	ere opene	d for use b	stween their pre	sent termini:	
		MAIN L	INB.	Miles.	Miles.
Length completed in Michigan					-
Total length completed					
Total length of road belonging to Total length of road belonging to Aggregate length of sidings, spurs Same in Michigan	, and othe	r tracks n	ot above enumer	ated	1.75
Aggregate length of tracks belong Same in Michigan	ing to thi	s company	computed as si		5. <b>4</b> 1
					:

STATE OF NEW YORK, COUNTY OF NEW YORK, Ss.

Charles F. Cox, treasurer and secretary, of the Canada Southern Bridge Company, being duly sworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, d-clares them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

C. F. COX, Treasurer and Secretary.

Subscribed and sworn to before me this 3d day of March, A. D. 1897.

EDGAR FREEMAN, Notary Public.

#### . OF THE

### DETROIT & BAY CITY RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, C. VANDERBILT, New York City. Secretary, E. D. WORCESTER, New York City. Vice President, H. B. LEDYARD, Detroit, Mich.

### DIRECTORS.

C. VANDERBILT, New York City.

W. K. VANDERBILT, New York City.

H. B. LEDYARD, Detroit, Mich.

C. M. DEPEW, New York City.

S. F. BARGER, New York City.

Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 26, 1881.
Number of stockholders at date of last election: 7.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$300.00
Date of annual meeting of stockholders: First Thursday after first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich., and New York City,

### REMARKS.

Under an agreement dated March 10, 1881, the Detroit & Bay City Railroad Company transferred the possession and control of its railroad and property to the Michigan Central Railroad Company. The latter company agreed to operate the same during its corporate existence. Under the terms of this agreement, the Michigan Central Railroad Company is authorized and agrees to issue its bonds to the amount of \$4,000,000, and both companies have joined in the execution of a mortgage upon all the Detroit & Bay City Railroad Company's property to secure the payment of said bonds.

Amount authorized by charter or articles of association	\$2,000,000	00
Par value of shares	\$100 00	
Average price received per share	100 00	
Average price received per share	2,000,000 00	
Total amount paid in, as per books of the company	\$2,000,000	00
Paid in per mile of road owned by company, 149.90 miles	18,842	23

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of \$4,000,000, secured by a first mortgage on the property of this company.

RECAPITULATION.		
Total amount of stock and debt		000,000 00 18,842 23
	_	
DESCRIPTION OF EOAD,		
Date when the road was opened for use between its present termini: Detroit to Bay City, July 31, 1873.		
main line.	M11	Miles.
·	Miles. 109.00	ML1186.
Total length completed.		109.00
· BRANCHES.		
Saginaw branch, from Denmark Junction to E. Saginaw. Caro branch, from Vassar to Caro. Detroit Belt Line	16.75 12.75 4.39 7.01	
Total length of branches owned by company		40.90
Total length of branches owned by company in Michigan	40.90	
Total length of road belonging to this company		149.90
Total length of road belonging to this company in Michigan Bay City Street R'y (leased)	149 90 5.10	68.55
Aggregate length of sidings, spurs, and other tracks not above enumerated	68.55	
Aggregate length of tracks belonging to this company, computed as single track	218.45	213.45
Gauge of track: 4 feet 8% inches.	=	

STATE OF MICHIGAN, St. County of Wayne,

H. B. Ledyard, Vice President of the Detroit & Bay City Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

H. B. LEDYARD, Vice President.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.
[L. S.]

JOHN F. PRIERS.

Notary Public in and for Wayne Co.

#### OF THE

## DETROIT, DELRAY & DEARBORN RAILROAD COMPANY.

For the year ending December \$1, 1996.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

#### DIRECTORS.

H. B. LEDYARD, Detroit, Mich.
ABHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
A. J. Burt, Detroit, Mich.
A. TORREY, Detroit, Mich.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 19, 1895. Number of stockholders at date of last election: 7.
Number of stockholders in Michigan at same date: 7.
Amount of full paid stock held in Michigan at same date: \$3,500.00.
Date of annual meeting of stockholders: No date set.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.			\$50,000 00	
Par value of shares  Average price received per share  Number of shares issued	95	\$100 00 100 00		
Amount paid in on common			\$8,500 00	
Total amount paid in, as per books of the company				\$8,500 00
Paid in per mile of road owned by company, 4.84 miles				725 21

### ANALYSIS OF DEBT ACCOUNTS.

### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated.	Amount.
For construction		\$42,751 98

5.16

### RECAPITULATION.

Total unfunded debt	\$42,751 98
Total debt liabilities	\$42,751 98
Amount of debt liabilities per mile of road (4.84 miles)  Total amount of stock and debt  Stock and Tebt per mile of road	8,833 05 46,251 98 9,556 19
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	y.
Total expended for construction  Average cost of construction per mile of road (not including sidings), 4.84 miles  Proportion of cost of construction for Michigan	\$46,251 98 9,556 19 46,251 98
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: October 5, 1895.	
MAIN LINE. Miles.	Miles.
Length completed in Michigan.	
Total length completed	4.84
Total length of road belonging to this company	4.84

Gauge of track, 4 feet 81/4 inches.

STATE OF MICHIGAN, Solution of Waine,

H. B. Ledyard, president, and A. J. Burt, secretary, of the Detroit, Delray & Dearborn Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed.

Aggregate length of tracks belonging to this company, computed as single track......

Same in Michigan

[L. S. OF R. R.]

H. B. LEDYARD, President. A. J. BURT, Secretary.

5.16

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

[L. S.]

JOHN F. PRIERS, Notary Public in and for Wayne Co.

50

#### OF THE

### GRAND RIVER VALLEY RAILROAD COMPANY.

For the year ending December 31, 1896.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JOHN M. ROOT, Jackson, Mich. Secretary, E. W. BARBER, Jackson, Mich. Treasurer, E. W. BARBER, Jackson, Mich.

### DIRECTORS.

J. M. ROOT, Jackson, Mich.
E. W. BARBER, Jackson, Mich.
W. H. WITHINGTON, Jackson, Mich.
ALO. BENNETT, Jackson, Mich.
E. S. LACEY, Chicago, Ill.
NATHAN BARLOW, Hastings, Mich.
H. G. BARBER, Vermontville, Mich.
Terms expire October 5, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 11, 1894.
Number of stockholders at date of last election: 45.
Number of stockholders in Michigan at same date: 20.
Amount of full paid stock held in Michigan at same date: 3144,700.00.
Date of annual meeting of stockholders: First Monday in October.
Fiscal year of company ends December 31.
General offices of the company are located at Jackson, Mich.

### REMARKS.

Operated by the Michigan Central Railroad Company under an agreement for and during the lifetime of articles of association—999 years. First organized under special charter May 4, 1846; reorganized under general railroad law of Michigan April 25, 1894, and articles of association filed May 11, 1894.

Amount authorized by charter or articles of association	\$100 00 100 00	\$1,000,000 00
Total amount paid in, as per books of the company		 491,200 00
Paid in per mile of road owned by company		 5,862 27

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

	1	1	1	1
Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount out standing.
First mortgage on road to secure bonds o Michigan Central (not a debt of this Co.	f ) 6%	Sept. 1,1909	New York City	\$1,500,000 0
	RECAPITUL	ATION.		
Potal mortgage				. \$1,500,000 0
Total mortgage liabilities	. <b></b>			. \$1,500,000 0
Fotal amount of stock and mortgage Stock and debt per mile of road				
INT	EREST ON I	MORTGAGE.		
What is the amount of same due each year				. \$90,000 0
COST OF	ROAD AN	D EQUIPMENT.		
COST OF		•		OMPANT.
TOTAL COST FOR CONSTRUCTION AND R TOtal expended for construction	QUIPMENT	OF EOAD AND BRA	NORMS BUILT BY O	
TOTAL COST FOR CONSTRUCTION AND R Protal expended for construction	QUIPMENT ad (not inc nigan: All	OF EOAD AND BRA	NORMS BUILT BY O	
TOTAL COST FOR CONSTRUCTION AND B Protal expended for construction Average cost of construction per mile of ro Proportion of cost of construction for Micl	equipment ad (not inc ingan: All CRIPTION	OF ROAD.	ANGRES BUILT BY O	
TOTAL COST FOR CONSTRUCTION AND R Protal expended for construction	equipment ad (not inc ingan: All CRIPTION	OF ROAD.  OF ROAD.	NORMS BUILT BY O	. \$2,867,053 0 . 34,829 1
TOTAL COST FOR CONSTRUCTION AND R Protal expended for construction. Average cost of construction per mile of ro Proportion of cost of construction for Mici	ed (not inc ad (not inc aigan: All CRIPTION ween its p	OF ROAD AND BEA in Michigan. OF ROAD. resent termini: 18	3.79 miles	. \$2,867,053 0 34,229 1 
TOTAL COST FOR CONSTRUCTION AND R Total expended for construction. Average cost of construction per mile of ro Proportion of cost of construction for Mici	equipment ad (not inc nigan: All CRIPTION tween its po MAIN L	OF EOAD AND BEA in Michigan.  OF ROAD.  resent termini: 16	379 miles	_ \$2,967,053 0 34,329 1
TOTAL COST FOR CONSTRUCTION AND R Protal expended for construction per mile of ro Proportion of cost of construction for Mici DESC Date when the road was opened for use before the completed in Michigan	equipment ad (not inc nigan: All CRIPTION tween its po MAIN L	OF EOAD AND BEA	379 miles	_ \$2,967,053 0 34,329 1 
TOTAL COST FOR CONSTRUCTION AND E Protal expended for construction per mile of ro Proportion of cost of construction for Miel  DESC  Date when the road was opened for use before the completed in Michigan  Total length completed	QUIPMENT ad (not inc nigan: All CRIPTION tween its po MAIN L BRANCI	OF EOAD AND BRA lluding sidings) 8 in Michigan.  OF ROAD.  resent termini: 18 INE.	8.79 miles	. \$2,867,053 0 1 2 34,229 1
TOTAL COST FOR CONSTRUCTION AND R Protal expended for construction per mile of ro Proportion of cost of construction for Mich DESC Date when the road was opened for use before the completed in Michigan	QUIPMENT ad (not inc nigan: All CRIPTION tween its po MAIN L BRANCI er tracks not is company	OF EOAD AND BEA	Miles	Miles 9 88.7

## STATE OF MICHIGAN, COUNTY OF JACKSON, Ss.

J. M. Root, president, and E. W. Barber, secretary, of the Grand River Valley Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed.

J. M. ROOT, President. E. W. BARBER, Secretary.

Subscribed and sworn to before me this 17th day of February, A. D. 1897.

A. W. McGER, Notary Public.

<sup>\*</sup>Of this total \$1,500,000.00 included in report of Michigan Central on account of leased lines.

#### OF THE

### JACKSON, LANSING & SAGINAW RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, HENRY B. LEDYARD, Detroit, Mich. Secretary, ORLANDO M. BARNES, Lansing, Mich. Treasurer, WM. M. THOMPSON, Jackson, Mich.

#### DIRECTORS.

CORNELIUS VANDERBILT, New York City. HENRY B. LEDYARD, Detroit, Mich. HENRY B. JOY, Detroit, Mich. WM. M. THOMPSON, Jackson, Mich. HENRY HAYDEN, Jackson, Mich. ORLANDO M. BARNES, LENSING, Mich.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 23, 1864.
Number of stockholders at date of last election: 57.
Number of stockholders in Michigan at same date: 28.
Amount of full paid stock held in Michigan at same date: \$1,464,300 or 14,643 shares.
Date of annual meeting of stockholders: Second Tuesday of January.
Fiscal year of company ends: Calendar year.
General offices of the company are located at Lansing, Mich.

### REMARKS.

The Michigan Central Railroad Company operates the company's road under agreement which went into operation September 1, 1871.

Amount authorised by charter or articles of association.			\$2,500,000 00
Par value of shares	<b>£</b> 100	00	
Average price received per share	100	00	
Average price received per share	20.000		
Amount paid in on common	,	2,000,000 00	
		<del></del>	
Total amount paid in, as per books of company			2,000,000 00
Paid in per mile of road owned by company			6,777 86

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: December 31, 1882.

MAIN LINE.	. Miles.
Length completed in Michigan	
Total length completed	295.10
BRANCHES.	
Twin Lakes branch, from Grayling to Twin Lakes	)
Total length of branches owned by company	27.80
Total length of road belonging to this company in Michigan	
Aggregate length of of sidings, spurs, and other tracks not above enumerated	557.13
Gauge of track, 4 feet, 8% inches.	

STATE OF MICHIGAN, COUNTY OF INGHAM, }88.

Orlando M. Barnes, secretary, of the Jackson, Lansing & Saginaw Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1886, to the best of his knowledge and belief.

[L. S. OF R. R.]

ORLANDO M. RARNES. Secretary.

Subscribed and sworn to before me this 4th day of February, A. D. 1897.
[L. s.]

C. J. DAVIS.

Notary Public, Ingham Co. Mich.

ORLANDO M. BARNES, Secretary.

#### OF THE

### KALAMAZOO & SOUTH HAVEN RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich.

### DIRECTORS.

C. VANDERBILT, New York City.
ASHLEY POND, Detroit, Mich.
H. B. LEDYARD, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
A. J. Burt, Detroit, Mich.
F. S. WINSTON, Chicago, Ill.
Terms expire when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: April 15, 1869. Number of stockholders at date of last election: 199. Number of stockholders in Michigan at same date: 124. Amount of full paid stock held in Michigan at same date: \$325,100. Date of annual meeting of stockholders: Second Wednesday in March. Fiscal year of company ends: December 31st. General offices of the company are located at Detroit, Mich.

### REMARKS.

Leased to the Michigan Central Railroad Company, July 1, 1870, and is operated by it. The Michigan Central Railroad Company owns a majority of the capital stock.

Amount authorized by charter or articles of association.         \$100 00           Par value of shares.         \$100 00           Average price received per share         100 00           Number of shares issued         8,254           Amount paid in on common.         \$822	<b>\$5</b> 00,000 00
Total amount paid in as per books of the company	\$325,400 00
Paid in per mile of road owned by company, 39.50 miles.	8,287 97

### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

The Michigan Central Railroad Company has issued its bonds to the amount of \$700,000, secured by a first mortgage on the property of this company, and pays the interest thereon as rent.

#### RECAPITULATION.

Total amount of stock and debt	\$825,400 00 8,287 97

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction	\$325,400 00 8,237 97 325,400 00
---------------------------------	----------------------------------------

### DESCRIPTION OF ROAD.

Date when road was opened for use between its present termini: January 2, 1871.

MAIN LINE.	
Miles.	Miles.
Length completed in Michigan 39.50	
Total length completed	39.50
Total length of road belonging to this company	39.50
Total length of road belonging to this company	5.13
Same in Michigan 5.18 Aggregate length of tracks belonging to this company, computed as single track.	
Aggregate length of tracks belonging to this company, computed as single track	44.63

Gauge of track, 4 feet, 81/4 inches.

STATE OF MICHIGAN, BS. COUNTY OF WAYNE,

Ashley Pond, president, and A. J. Burt, secretary, of the Kalamazoo & South Haven Bailroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

ASHLEY POND, President. A. J. BURT, Secretary.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

[L. S.]

GEO. E. TEGART,

Notary Public, Wayne Co., Mich.

OF THE

### MICHIGAN AIR LINE RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, H. B. LEDYARD, Detroit, Mich. Secretary and Treasurer, A. J. BURT, Detroit, Mich. Vice President, HENRY RUSSEL, Detroit, Mich.

### DIRECTORS.

C. VANDERBILT, New York City.
H. B. LEDYARD, Detroit, Mich.
ASHLEY POND, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
E. D. WORCESTER, New York City.
J. W. French, Three Rivers, Mich.
A. J. BURT, Detroit, Mich.
Terms expire when successors are elected.

### \* STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 14, 1868; March 19, 1870. Date of annual meeting of stockholders: Third Wednesday in October. Biscal year of company ends: December 31. General offices of the company are located at Detroit, Mich.

#### REMARKS.

This property is under perpetual lease to the Michigan Central Railroad Company, and has been so since its construction.

### ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		\$4,000,000 00
Par value of shares	\$50 00	• •
Number of shares issued 7,85	B <b>1</b> 4	

### ANALYSIS OF DEBT ACCOUNTS.

The Michigan Central Railroad Company has issued its bonds to the amount of \$2,600,000 secured by a first mortgage on the property of this company, and pays the interest thereon.

### † COST OF ROAD AND EQUIPMENT.

<sup>\*</sup>The Michigan Central now owns a majority of the stock and controls the property; the books were received in such an imperfect condition that the present management is unable to furnish all the information required by this form.

<sup>†</sup> Not known.

### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: January, 1871.

MAIN LINE.	Miles.	Miles.
Length completed in Michigan Length completed in Indiana	109.10 6.08	
Total length completed		115.16
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of sidings. spurs, and other tracks not above enumerated Same in Michigan	109.10	115.16 24.31
Aggregate length of tracks belonging to this company, computed as single track Same in Michigan	181.39	189.47

Gauge of track, 4 feet 81/2 inches.

STATE OF MICHIGAN, } 88.

H. B. Ledyard, president, and A. J. Burt, secretary, of the Michigan Air Line Bailroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

H. B. LEDYARD, President. A. J. BURT, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

JOHN F. PRIERS, Notary Public in and for Wayne Co.

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#### OF THE

### MICHIGAN MIDLAND & CANADA RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York, N. Y.
Secretary and Treasurer, CHARLES F. COX, New York, N. Y.
Transfer Agent, HENRY B. AYERS, New York, N. Y.

### DIRECTORS.

CORNELIUS VAMDERBILT, New York, N. Y. WM. K. VANDERBILT, New York, N. Y. JAMBS TILLINGHAST, Buffalo, N. Y. SAMUEL F. BARGER, New York, N. Y. CHARLES F. COI, New York, N. Y. EDWARD A. WICKS, New York, N. Y. CHAUNGBY M. DEPEW, New York, N. Y. CHARLES C. CLARE, New York, N. Y. Terms expire June. 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 17, 1872.
Number of stockholders at date of last election: Twenty-eight.
Number of stockholders in Michigan at same date: Four.
Amount of full paid stock held in Michigan at same date: One hundred and twelve shares (\$11,200.)
Date of annual meeting of stockholders: First Thursday after first Wednesday in June.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads, under an agreement for joint operation, made December 12, 1882, between the Michigan Central and Canada Southern Companies.

Amount authorized by charter or articles of association  Par value of shares	\$100.00	\$400,000 00	•
Average price received per share  Number of shares issued	100 00		
Amount paid in on common	a,vuu	300,000 00	
Total amount paid in as per books of the company			\$300,000 00
Paid in per mile of road owned by company, 14.68 miles			20,435 96

### ANALYSIS OF DEBT ACCOUNTS.

Class, character and date of issue.  Rate of interest.  When due.  Where pa	yable. Amount outstanding.
First mortgage coupon bonds dated July 1. 1873, and scrip	, N. Y \$828,635 00
UNFUNDED DEBT.	
For what incurred. Is the same to be funded or how liquidate	d. Amount.
Interest on bonds	\$507,605 00 97,745 72
Total unfunded debt	\$605,850 72
RECAPITULATION.	
Total funded debt	\$323,685 00 605,350 72
Total debt liabilities	\$928,985 72
Amount of debt liabilities per mile of road, 14.68 miles	68,282 40 1,228,985 72 88,718 87
What is the amount of same due each year	22,610 00
### It paid for the last year? No.  If interest is in default state the years and amounts as follows:  1873	84,025 00 9,765 00 20,300 00 21,490 00 22,540 00 22,575 00 22,610 00
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road, and branches built by	company.
Total expended for construction	\$586,342 02 39,941 56
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: December 4, 1874, St. Clair to Ridgway, Mich.	
MAIN LINE.	Miles. Miles.
Length completed in Michigan	14.68
Total length completed	14.68
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length of sidings, spurs and other tracks not above enumerated.  Same in Michigan.	Q2
Aggregate length of tracks belonging to this company computed as single track	15.60

Gauge of track, 4 foot 81/2 inches.

STATE OF NEW YORK, }ss.

Charles F. Cox, treasurer and secretary of the Michigan Midland & Canada Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed] C. F. COX, Treasurer and Secretary.

Subscribed and sworn to before me this 3d day of March, A. D., 1897.
[L. S.]

EDGAR FREEMAN, Notary Public.

#### OF THE

## SAGINAW BAY & NORTHWESTERN RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed March 31, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ASHLEY POND, Detroit, Mich. Secretary, A. J. BURT, Detroit, Mich.

### DIRECTORS.

H. B. LEDYARD, Detroit, Mich.
ABBLEY POND, Detroit, Mich.
A. J. BURT, Detroit, Mich.
HENRY RUSSEL, Detroit, Mich.
F. J. HECKER. Detroit, Mich.
Term expires when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 27, 1884.
Date of annual meeting of stockholders: First Thursday after first Wednesday in May.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is owned and the road is operated by the M. C. R. R. Co.

Amount authorized by charter or articles of association Par value of shares	\$300,000 00
Total amount paid in, as per books of company.	20,000 00
Paid in per mile of road owned by company, 83.01 miles.	240 93
RECAPITULATION.	
Total amount of stock and debt.	\$20,000 00 240 98

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road, and branches built by company.

Total expended for construction, as per books of company		\$225,526 15 2,716 85 225,526 15
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini; May, 1879	).	
MAIN LINE.	Miles.	Miles.
Length completed in Michigan.		BLLB90+
Total length completed	• • • • • • • • • • • • • • • • • • • •	28.72
Branches,		
Sundry branches, from main line into woods	54.29	
Total length of branches owned by company		54.29
Total length of branches owned by company in Michigan	54.29	
Total length of road belonging to this company	,	83.01
Total length of road belonging to this company in Michigan  Aggregate length of sidings, spurs, and other tracks not above enumerated	88.01	10.57
Same in Michigan  Aggregate length of tracks belonging to this company, computed as single	10.57	
track Same in Michigan	98.58	<b>93.5</b> 8
Gauge of track, 4 feet 8% inches.		

## STATE OF MICHIGAN, Sounty of Wayne,

Ashley Pond, president, and A. J. Burt, secretary, of the Saginaw Bay & Northwestern Bailroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief. [L. S. OF R. R.]

ASHLEY POND, President. A. J. BURT, Secretary.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

GEO. E. TEGART, Notary Public, Wayne Co. Mich.

OF THE

# TOLEDO, CANADA SOUTHERN & DETROIT RAILWAY COMPANY,

For the year ending December 31, 1996.

[Filed March 31, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, JAMES TILLINGHAST, New York, N. Y.
Secretary and Treasurer, CHARLES F. COX, New York, N. Y.
Transfer Agent, HENRY B. AYERS, New York, N. Y.

### DIRECTORS.

CORNELIUS VANDREBILT, New York, N. Y. WM. K. VANDREBILT, NEW YORK, N. Y. JAMES TILLINGHAST, Buffalo, N. Y. SAMUEL F. BARGER, New York, N. Y. CHARLES F. COX, New York, N. Y. EDWIN D. WORCESTER, New York, N. Y. EDWARD A. WICKES, New York, N. Y. CHAUNCEY M. DEPEW, New YORK, N. Y. ALLYN COX, New York, N. Y. Terms expire, June, 1807.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered, or articles of association filed: Consolidation (July 19, 1872), of the Detroit & State Line R. R. Co., of Michigan, and the Junction Railway Co. of Ohio.

Number of stockholders at date of last election: 17.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held in Michigan at same date: 10 shares (\$1,000.)

Date of annual meeting of stock holders: First Thursday after first Wednesday in June.

Fiscal year of company ends December 31.

General offices of the company are located at Detroit, Mich.

### REMARKS.

The stock is controlled by the Canada Southern Railway Company, and the road is operated by the Michigan Central Railroad Company as a part of the Canada Southern system of roads under an agreement for joint operation made December 12, 1882, between the Michigan Central and Canada Southern Companies.

Amount authorized by charter or articles of association Par value of shares.	\$100 00 100 00	1	\$2,000,000 00
Average price received per share			
Total amount paid in, as per books of the company			1,547,662 50
Paid in per mile of road owned by company, 58 92 miles			26,267 18

### OF THE

### MIDLAND & HUBBARD RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed February 23, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, COLLINS B. HUBBARD, Detroit. Mich. Secretary, EDWIN B. HUTCHINSON, Detroit, Mich. Treasurer, GEORGE DINGWALL, Detroit, Mich. Vice President, HOYT POST, Detroit, Mich.

### DIRECTORS.

COLLINS B. HUBBARD, Detroit, Mich. GEORGE DINGWALL, Detroit, Mich. HOTT POST, Detroit, Mich. EDWARD A. DINGWALL, Detroit, Mich. EDWIN B. HUTCHINSON, Detroit, Mich.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 25, 1893. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: 120 shares. Date of annual meeting of stockholders December 17. Fiscal year of company ends December 17. General offices of the company are located at Detroit, Mich.

#### REMARKS.

Lease executed June 20, 1894, by the Midland & Hubbard Railroad Company to the Midland & Northern Railway Company until November 1, 1903, at a nominal rental of one (1) dollar per year, the leases to operate the road during the term of the lease, and furnish transportation for freight and passengers.

Amount authorized by charter or articles of association.  Par value of shares \$100.00	\$80,000 00
Average price received per share 100 00 Amount paid in on common \$12,000 00	
Total amount paid in, as per books of the company	12 000 00
Paid in per mile of road owned by company	1,200 00

### ANALYSIS OF DEBT ACCOUNTS.

### UNFUNDED DEBT.

For miscelianeous.	\$3,586 25
RECAPITULATION.	
Total debt liabilities	\$3,586 25
Amount of debt liabilities per mile of road, 10 miles	358 62 15,586 25 1,558 62
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company	•
Total expended for construction of road bed and right of way	\$15,586 25 1,558 62
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: January 1, 1894.	
MAIN LINE.	Milos.
Length completed in Michigan	10 10
Gauge of track, 4 feet 8⅓ inches.	

# STATE OF MICHIGAN, } as.

Hoyt Post, vice president, and Edwin B. Hutchinson, secretary, of the Midland & Hubbard Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1898, to the best of their knowledge and belief.

[L. S. OF R. R.]

HOYT POST, Vice President. EDWIN B. HUTCHINSON, Secretary.

Subscribed and sworn to before me this 18th day of February, A. D. 1397.

FRED B. PORTER,
Notary Public, Wayne Co. Mich.

#### OF THE

### MIDLAND & NORTHERN RAILWAY COMPANY.

For the year ending December 31, 1896.

[Filed May 12, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, W. B. REMINGTON, Midland, Mich. Fice President, CHAS. BROWN, Midland, Mich. Secretary, JNO. W. KELTY, Midland, Mich. Treasurer, J. W. KELTY, Midland, Mich. General Manager, CHAS. BROWN, Midland, Mich.

#### DIRECTORS.

W. B. REMINGTON, Grand Rapids, Mich.
M. P. Anderson, Midland.
JNO. W. Kelty, Midland.
Albert Reed, Midland.
CHAS. Brown, Midland.
WM. D. Gordon, Midland.
E. E. Remington, Grand Rapids.
Terms expire with the year.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 12, 1894.

Number of stockholders at date of last election. Seven.

Number of stockholders in Michigan at same date: Seven.

Amount of full paid stock held in Michigan at same date: \$2,500,

Date of annual meeting of stockholders: Tuesday following second Monday in January.

Fiscal year of company ends December 31.

General offices of the company are located at Midland, Mich.

### GENERAL EXHIBIT.

Total earnings from operation. Total expenses, including taxes	\$886 99 1,820 48
Net deficit.	\$938 49
Balance for the year	933 49
Balance (profit and loss) last year	1,438 31
Balance forwarded to next year	\$2,371 80
ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association \$100.00	\$25,000 00
Number of shares issued	
Total amount paid in, as per books of the company	\$2,500 00
Paid in per mile of road owned by company	250 00

# ANALYSIS OF DEBT ACCOUNTS.

# UNFUNDED DEST.

UNFUNDED DEST.	
Total unfunded debt	\$8,547 29
RECAPITULATION.	
Total unfunded debt Amount of debt liabilities per mile of road, 10 miles Total amount of stock and debt Stock and debt per mile of road	\$8,547 29 854 78 11,047 29 1,104 78
GENERAL BALANCE SHEET.—Dr.	
Construction account	\$5,915 29
Equipment account	\$5,915 29 2,760 28 2,871 80
Total	\$11,047 29
GENERAL BALANCE SHEET.—Cr.	
	<b>60 KOO OO</b>
Capital stock	\$2,500 00
Account of Cleveland W. W. Co.	8,547 29
Total	\$11,047 29
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches built by company.	
Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 10 miles.  Proportion of cost for Michigan. All.	\$8,675 49 867 55
ANALYSIS OF BARNINGS.—ROAD ALL IN STATE OF MICHIGAN.	
FREIGHT BARNINGS.	
Local traffic	\$886 99
Total freight department earnings Total transportation earnings, entire line	\$886 99 886 99
Per mile of road.	88 70
Transportation earnings per mile of road	\$88 70
-	<del></del>
Total earnings from operation of road.	\$886 99
Total earnings per mile of road Proportion of taxable earnings for Michigan: All.	88 70
Total income from all sources.	\$886 99
ANAL WOLG OF THE PROPERTY	
ANALYSIS OF EXPENSES.	
Total =	\$1,820 48
DECARIMITIAMION OF BADDAGE	
RECAPITULATION OF EXPENSES.	<b>A</b> 4 000 10
Conducting transportation	\$1,820 48
Total operating expenses and taxes	\$1,820 48
Percentage of expenses to earnings, 2.05.	

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini. From Midland to Hubbard, January, 1895.

MAIN LINE. Miles.	Miles.
In Michigan, from Midland to Hubbard	
Total length completed	10.
Gauge of track, 4 feet 81/4 inches.	<del></del>
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? F. & P. M. R. R. at Midland. M. C. R. R. at Midland.	
At what crossings are interlocking and derailing switches in operation?  F. & P. M. at Midland.  M. C. at Midland.	
What pattern or patterns have you adopted?  Johnson.	
Number of crossings of highways at grade in this State	8
Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 18837 Yes.	
How are they treated? Wooden blocks.	
Stations.	
Namber of stations on whole lines	2 2
Employés.	
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan	8
Classify your employés as per following list:	Number.
Conductors	1
Fencing in Michigan.	
How many miles of fencing have you.  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed.	8 12
Total miles required	20
Doed had and durah	
Road bed and track.	
Number of track sections in Michigan Average lengths of sections (miles,	10
	Present esti-
	mated value.
Number of locomotives of 10 to 20 tons weight, exclusive of tender. 1 Number of express and baggage cars 1	75 00
Number of platform cars	75 00
Logging. 12	1,000 00
<u> </u>	

STATE OF MICHIGAN, COUNTY OF MIDLAND. 388.

Charles Brown, vice president, and Jno. W. Kelty, secretary and treasurer of the Midland and Northern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed

CHARLES BROWN. JNO. W. KELTY.

Subscribed and sworn to before me this 11th day of May, A. D. 1897.

[L. S.]

F. E. BARBOUR, Notary Public in and for Midland Co., Mich.

#### ANNUAL REPORT

OF THE

# MINERAL RANGE RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 5, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WM. F. FITCH, Marquette, Mich.

Pice President, W. R. PARNALL, Laurium, Mich.

Secretary, A. E. MILLER, Marquette, Mich.

Auditor, A. E. DELF, Marquette, Mich.

Treasurer, R. W. ALLEN, Marquette, Mich.

Assistant Treasurer and Assistant Secretary, GEO. H. CHURCH, New York, N. Y. General Manager, WM. F. FITCH, Marquette, Mich.

Superintendent, J. C. SHIELDS, Hancock, Mich.

General Passenger Agent, GEO. W. HIBBARD, Marquette, Mich.

General Freight Agent, WM. ORR, Duluth, Minn.

Attorney, A. B. ELDRIDGE, Marquette, Mich.

#### DIRECTORS.

WILLIAM F. FITCH, Marquette, Mich.
E. W. ALLEN, Marquette, Mich.
A. E. DELF, Marquette, Mich.
J. G. REYNOLDS, Marquette, Mich.
E. C. WILLIAMS, Marquette, Mich.
C. H. SHAFFER, Marquette, Mich.
JAS. E. JOPLING, Ishpeming, Mich.
W. E. PARNELL, Laurium, Mich.
THOS. NELSON, BOSTON, Mass.
GEO. H. CHURCH, New York, N. Y.
J. HUGH PETERS, New York, N. Y.
Terms expire July 14, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 3, 1871. Number of stockholders at date of last election: 20. Number of stockholders in Michigan at same date: 10. Amount of full paid stock held in Michigan at same date: 100 shares. Date of annual meeting of stockholders: Second Tuesday in July. Fiscal year of company ends: December 31. General offices of the company are located at Marquette, Mich.

GENERAL EXHIBIT.						Credit.
Total earnings from operation Total expenses, including taxes					\$59,822 9	_ \$108,285 56 B
Net income						\$48,412 <b>6</b>
Interest on funded debtInterest on unfunded debt					17,025 0 8,228 38	
Balance applicable to dividends						23,159 25
Dividends declared (7s)					<b>\$27,53</b> 8 00	
Balance for the year			•••••		4,878 7	8
Balance (profit and loss) last yea	r					159,613 88
Items not included in above						12,500 00
Balance forward to next year						\$167,785 10
AN.	ALY81	S OF CAL	PITAL STOCK.			
Amount authorized by charter or art Par value of shares	icles of	associati	on	00 00		. \$400,000 00
Number of shares issuedAmount paid in on common			8,98 <u>4</u>		\$893,400 0	0
Total amount paid in as per book						•
Paid in per mile of road owned by co						
		,				
AN.	ALY81	S OF DE	BT ACCOUNTS.			
Class, character and date of issu	<b>.</b>	Rate of interest.	When due.	Where	payable.	Amount outstanding
M. R. R. B. main line first mortgage,	June 1,	8%	June 1, 1888	New Yo	ork City	\$6,000 00
M. R. R. R. main line general mor	tgage,	4%	Jan. 1, 1937	New Yo	rk City	7,300 00
December 14, 1886 M. R. R. R. consolidated mortgage, 1891	Jan. 1,	5%	Jan. 1, 1931	New Yo	rk City	*600,000 00
		·				
Total funded debt						\$613,300 00
* Of the \$600,000.00 five per cent bond	ds, \$259	9,500.00 are	in the treasury	of the co	mpany.	
	1	UNPUNDED	DEBT.			
For what incurred.	Is t	he same to	be funded or ho	w liquids	ted?	Amount.
For miscellaneous	o be pa	id in cash				\$148,500 00 145,197 85
Total unfunded debt						\$293,697 88
		RECAPITUL	ATION.	-		
Total funded debtTotal unfunded debt						\$618,900 00 293,697 85
Total debt liabilities						\$906,997 88
Amount of debt liabilities per mile or Total smount of stock and debt Stock and debt per mile of road (17.4)	f road	(17.40 mile	96)			52,126 31 1,800,397 88 74,785 51

# GENERAL BALANCE SHEET.-DR.

Construction account		\$845,988 91 183,328 00
Other investments:  Hancock & Calumet R. R.  Peninsular Copper mine Houghton County Agricultural and Driving Park Association Mineral Hange R. R. 5% bonds  Dayton & Southeastern R. R. bonds	\$250,000 00 2,044 00 640 00 259,500 00 10,400 00	522,584 00
Cash items:  Cash.  Bills receivable.  Due from agents.	\$4,812 08 125,500 00 5,485 06	
Other assets:  Materials and supplies.  Debit balances from companies and individuals.	\$29,138 14 1,346 76	185,797 14 30,484 90
Total		\$1,468,182 95
GENERAL BALANCE SHEET.—Cr.		
Capital stock		\$393,400 00
Funded debt.		618,800 00
Unfunded debt: Interest unpaid Dividends unpaid Notes payable Vouchers and accounts	\$1,284 75 13,769 00 148,500 00 130,144 10	
Profit and loss or income accounts.		293,697 85 167,735 10
Total		\$1,468,132 95
COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built  Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 17.40 miles.		\$779,266 91 44,785 45
Proportion of cost for Michigan		779,266 91
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
Other items	\$816 67 55 55	
Total	\$372 22	i
Total charges to property account as above		\$372 22
Net addition to property account		372 22
ANALYSIS OF EARNINGS ROAD ALL IN STATE OF MI	CHIGAN.	
PASSENGEE BARNINGS.  Main line and branches:		
Local fares	\$31,132 19	)
Total passenger fares	\$31,132 19	
	4021202 20	,
Express and baggage	1,658 02 1,330 59	:
Express and baggage	1,658 02 1,330 58	:

PREIGHT BARNINGS.	
Main line and branches: Local traffic \$73,455 02	
Total traffic \$73,455 02 Other sources, freight department \$51 92	
Total freight department earnings	\$74,006 94
Per train mile.	
Per train mile.	\$108,127,74
Miscellaneous receipts from operating account, other than for transportation: From rents not otherwise provided for	
Total	107 82
Distribution of miscellaneous earnings between main line and leased or proprietary roads	:
Company: Total mis-	
Mineral Range R. R. \$107.82	\$107 82
Total earnings from operation of road	\$108,235 56
Total earnings from operation of road  Total earnings per mile of road  Total earnings per train mile  10 83	<b>4110,110</b> 00
Total earnings per train mile 1 09.83 Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	108,285 56
Income other than from earnings	6,220 43 12,500 00
Total income from all sources	
Proportion of income for Michigan,	
110portion of 1200 201 Mionigan,	
analysis of expenses.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway.  Renewals of ties.  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves.  Repairs and renewals of telegraph.  Stationery and printing.	\$4,956 81 962 91 1,884 86 219 78 1,128 57 130 76 427 70- 1 37
Total	\$9,712 76
·	
MAINTENANCE OF EQUIPMENT.	
Superintendence.  Repairs and renewals of locomotives Repairs and renewals of pasenger cars Repairs and renewals of freight cars. Repairs and renewals of shop machinery and tools.  Other expenses.	\$1,185 00- 1,994 56 1,056 45 2,697 78 583 81 66 36
Total	\$7,583 96
CONDUCTING TRANSPORTATION.	
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Other supplies for locomotives Train service Train supplies and expenses Switchmen, flagmen and watchmen Telegraph expenses. Station service Station service Station service Station supplies Loss and damage Injuries to persons Advertising Rent of buildings and other property Stationery and printing	\$1,416 49 6,140 11 7,810 35 75 00 384 55 64 29 3,260 29 324 65 1,051 33 1,236 62 9,390 95 936 90 116 14 132 31 40 38 340 00 442 56
Total	\$33,112 92

# GENERAL EXPENSES.

Salaries of general officers. Salaries of clerks and attendants	\$2,550 00 2,044 19 185 56 1,057 50
Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes	491 21 91 64 151 95 2,861 27
Total	\$9,418 82
RECAPITULATION OF EXPENSES. Per cent c expenses	
Maintenance of way and structures     16.24       Maintenance of equipment     12.08       Conducting transportation     55.85       General expenses, including taxes     15.78	\$9,712 76 7,583 96 33,112 92 9,413 32
Total operating expenses and taxes	\$59,822 96
Operating expenses and taxes per mile of road	\$3,438 10
Total proportion of expenses for Michigan	59,822 96
Percentage of expenses to earnings 55.27 Net earnings per mile of road 2,782 88 Net earnings per train mile 49.18	
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Houghton to Red Jacket, October 11, 1873.	
MAIN LINE. Miles.	Miles.
In Michigan, from Houghton to Red Jacket	47.00
	15.20
BRANCHES.	
Franklin, from Franklin Junction to Quincy Mine	2.20
Total length of road belonging to this company.  17.40 Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	17.40 4.87
Aggregate length of tracks in Michigan belonging to this company, computed as single track.	21.77
Gauge of track, 3 feet.	
Number of bridges and trestles in Michigan.  Number.	Aggregate length feet.
Wooden bridges 5 Wooden treatles 4	1,7251/4 162
Total 9	1,8871/4
Draw bridges in Michigan.	
Draw bridges in Michigan.  How many on your line	1
	1
How many on your line	1
How many on your line	1

How swung, by engine or hand power: Engine.	
Approaches straight or curved: Curved.	
Do you require all trains to come to full stop before crossing a draw, and how are they sign Yes; by flagman.	aled?
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State and at what locality? Hancock & Calumet R. R. at Osceova. Hecla & Torch Lake R. R. at Calumet. Quincy & Torch Lake R. R. at Franklin.	
At what crossings are interlocking and derailing switches in operation? Osceola and Calumet.	
What pattern or patterns have you adopted? Pennsylvania Steel Co , Saxby & Farmer machine.	
Number of crossings of highways at grade in this State	18 2 2 1
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, Session Laws of 18837 Yes.	
How are they treated? Filled in with wooden blocks	
Stations.	
Number of stations on whole lines	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan	103 103
Classify your employés as per following list:  Baggagemen Brakemen. Conductors Engineers Firemen. Laborers Shopmen. Yardmen Others.	Number 2 5 3 5 5 5 12 24 2 45
REPAIRS AND RENEWALS.	
Fencing in Michigan.  How many miles of fencing have you?	22
Give the number of miles required to complete fence both eides of your track in Michigan, and the countles in which needed:	
Houghten county	12.80
Total miles required	12.80
Road bed and track.	
Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan  Average number of new ties per mile of road.	3 6 4 4,251 4,251 244

# BOLLING STOCK.

		Present esti- nated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	. 1	\$21,000,00 6,900 00 20,000 00
Total	_ 8	\$47,900 00
Number of passenger cars—8-wheel, including official cars	- 2 - 86 - <b>69</b>	\$24,000 00 5,000 00 25,800 00 17,250 00 1,000 00
Gondola, 80; snow plow, 1	. 81	8,450 00
Total	. 198	\$129,400 00
Number of locomotives equipped with power brakes		8 9
What patterns of power brakes have you in use, and number of locomotives and b locomotives, Westinghouse. 3 locomotives, American Brake Co., vacuum brake. 9 passenger cars. Westinghouse.	cars with	each?

Are your freight care being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Blocker.

How are your passenger cars heated? Baker hot water heater.

# MILEAGE, TRAFFIC, ETC.

Train mileage.			All in Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Total mileage of trains earning revenue			39,970 58,574 98,544
Passenger traffic.—Road all in State of 1	Lichiga <b>n.</b>		
Number of local passengers carried, earning revenue	Number. 125,625	Miles.	Rate.
Total number of passengers carried, earning revenue	125,625		
Number of passengers carried one mile	1,217,721		
Average distance carried  Average amount received from each passenger  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers			\$0 24.781 02.556 02.556
Freight traffic.—Road all in State of Me	ichigan.		
Number of tons of local freight carried, earning revenue	Tons. 124,025	Miles.	Rate.
Total tons of freight carried, earning revenue	124.025		
Total mileage of local freight.		1,024,921	1
Total freight mileage or tons carried one mile		1,024,921	
Average ton haul for local freight		8. <b>26</b> 8	
Average ton haul for all freight		8.268	
Average amount received for each ton haul.  Average receipts ton per mile, for local freight			\$0 59.226 07.168 07.168

# FREIGHT TRAFFIC MOVEMENT.-BOAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	on this road. Whole tons.	roads and	Whole tons.	Per cent.	
Products of agriculture: Grain	4,599		4,599	3.71	
Flour Other mill products. Hay Fruit and vegotables	2,054 8,380 2,180		2,054 3,330 2,180 4,521	1.66 2.69 1.76 3.65	
Products of animals: Live stock Dressed meats Other packing house products. Poultry, game and fish	105		291 2,281 105 30	0.28 1.84 0.08 0.02	
Products of mines: Anthracite coal. Bituminous coal. Coke. Stone, sand and other like articles.	164		18 51,610 164 2,800	0.01 41.61 0.13 1.86	
Products of forest: LumberLogs	7,067 145		7,087 145	5.70 0.12	
Manufactures: Petroleum and other oils. Sugar	188 2,022 630 2,178 583 1,338 32 1,989		787 188 2,022 630 2,178 5-3 1,338 31 1,949 79	0.59 0.11 1.63 0.50 1.76 0.47 1.08 0.03 1.60	
Merchandise	20,118		20,118	16.22	
Miscellaneous: Other commodities not mentioned above	13,491		13,491	10.88	
Total tonnage	124,025		124,025	100	

# ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express Co. Mineral Range R. R. receives \$100.00 per month. They do a general business. We take their freight at our depots.

Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

15 miles; belongs to Mineral Range R. R. Co.

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### INJURED.

January 16, H. Roberts, baggsgeman, Hancock. Leg cut slightly while handling glass.
January 27, John Host, brakeman, Hancock. Riding on side of car; struck by scale house.
May 7, Ames DeMarse, transferman, Houghton. Ran nail into fout in jumping from car.
May 12, 8, Baril, transferman, Houghton. Hand crushed while handling freight.
June 6, Dan O'Neal, traspasser, Quincy. Fell under switch engine; left leg crushed, two toes cut off, and foot crushed badly.
June 17, John Lang, passenger, Red Jacket. Jumped of moving train to catch his hat; face badly bruised. bruised June 21, Geo. Allen, trespasser. Hancock. Trying to get on moving train; fell off bridge and broke his

September 24. P. McCarthy, brakeman, Franklin. Jumping from Gondola car; ran neil into right foot. December 10, P. McNamara, transferman, Houghton. Left leg broken while transfering copper; accidental.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.			Injured.		
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Getting on and off trains Mi-celaneous Trespassers on trains Trespassers on tracks				1	6	i
Total				1	6	2

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year	
Number of casualties purely accidental	
Number resulting from lack of caution, carelessness, or misconduct	
Number resulting from the Cartion, carelessness, or misconduct	
Freepassers and tramps killed or injured	

# CLASSIFICATION OF EMPLOYÉS.

# KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Beggagemen Brakenen Not classified above		1 2 8	1 2 3
Total		6	6

STATE OF MICHIGAN, Solution of Marquette,

A. E. Delf, auditor, of the Mineral Range Railroad Company, being duly sworn deposes and says that he has caused the feregoing statements to be prepared by the prepared filters and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

Signed.

[L. S. OF R. R.] Signed.

A. E. DELF, Auditor.

Subscribed and sworn to before me this 1st day of April, A. D. 1897.

[L. S.]

CHARLES A. PAYNE. Notary Public, Marquette Co., Mich.

# ANNUAL REPORT

#### OF THE

# MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RAILWAY COMPANY.

For the year ending December 81, 1896.

[Filed April 15, 1897.]

# OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, THOMAS LOWRY, Minneapolis.
Vice President, JOHN MARTIN, Minneapolis.
Secretary, C. F. CLEMENT, Minneapolis.
Auditor, C. W. GARDNER, Minneapolis.
Treasurer, C. F. CLEMENT, Minneapolis.
General Manager, F. D. UNDERWOOD, Minneapolis.
Superintendent, E. PENNINGTON, Minneapolis.
Division Superintendents:

D. WILLARD, Minneapolis.
F. C. BATCHELDER, Minneapolis.
Chief Engineer, W. W. BICH, Minneapolis.
Superintend nt of Telegraph, H. A. TUTTLE, Minneapolis.
General Pussenger Agent, W. R. CALLAWAY, Minneapolis.
General Freight Agent, W. L. MARTIN, Minneapolis.

#### DIRECTORS.

THOMAS LOWRY, Minneapolis, Minn.
W. D. WASHBURN, Minneapolis, Minn.
W. B. DEAN, St. Paul, Misn.
JNO. S. PILLSBURY, Minneapolis, Minn.
F. H. PEAVEY, Minneapolis, Minn.
SIE W. C. VAN HOEN, Montreal, Can.
T. G. SHAUGNESSY, Montreal, Can.
JOHN MARTIN, Minneapolis, Minn.
C. H. PETTIT, Minneapolis, Minn.
W. H. BRADLEY, Tomabawk, Wis.
Terms expire 1st Tuesday in June, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 11, 1888. Number of stockholders at date of last election: 87. Date of annual meeting of stockholders: First Tuesday in June. Fiscal year of company ends June 30. General offices of the company are located at Minneapolis.

GENERAL EXHIBIT. Debit.	Credit	
Total earnings from operation. \$2,291,191 85	\$3,689,043	80
Net income	\$1,396,851	97
Interest on funded debt         \$147,016 84           Interest on unfunded debt         49,258 44           Rentals of buildings, tracks, etc.         101,021 06	3	39
Balance for the year	\$99,555	58
Balance (profit and loss) last year       \$823,555 81         Loss on sale of boats "1896"       100,291 70		
Balance forward to next year	\$824,292	99
ANALYSIS OF CAPITAL STOCK.		
Amount authorised by charter or articles of association	)	00
Total amount paid in, as per books of the company	21,000,000	00
Paid in per mile of road owned by company, 1,170.21 miles	17,945	21

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding
First mort. bonds, M. & P. R'y, Jan. 1, '86 First mort. bonds, M. S. S. M. & A. R'y, Jan. 1, '86 First mort. bonds, M., St. P. & S. S. M. Ry., consols, July 1, '88 Income certificates, May 27. '90 R. R. Equipment Co., Nov. 25, '87* Bristol Wagon & Carriage Co., L'd, Nov.	45	January 1, 1936 January 1, 1926. July 1, 1938 July 1, 1900	New York  New York  New York  New York	\$3,204,000 0 8,280,000 0 16,861,000 0 771,000 0 13,469 5
Bristol Wagon & Carriage Co., L'd, Nov. 1, '92‡ Victoria Rolling stock Co., Dec. 1, '93, To- ronto, Canada			Toronto, Canada	19,008 0 20,908 8 584,591 7
ronto, Canada	<u> </u>		Toronto, Canada.	584,591 <b>829</b> ,758,978

<sup>\*</sup> Principal and interest in monthly installments of \$1,122.46 each, until November, 1897.
† Principal and interest in monthly installments of \$1,900.80, until November, 1897.
† Principal and interest in monthly installments of \$1,900.80, until November, 1897.

| Principal and interest in half yearly payments of \$41,816.80 each.

# UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For real estate	To be paid from real estate To be paid from earnings and assets of the road	\$88,000 00 2,738,380 04
Total unfunded debt		\$2,821,380 04

# RECAPITULATION.

RECAPITULATION.		
Total funded debt		\$29,753,978 10 2,821,380 04
Total debt liabilities		32,575,358 14
Amount of debt liabilities per mile of road, 1,170.21 miles		27,837 19 53,575,858 14
Stock and debt per mile of road, 1,170.21 miles		45,752 6
GENERAL BALANCE SHEETDr.		
Construction account	40,912.049 48 4,503,958 86	
Other investments:		
Aberdeen, Bismarck & Northwestern B'y	246,244 18	\$51,059,725 26
Cash items:		
Cash Bills receivable Due from agents	\$646,696 65 3,386 00 179,676 18	829,758 83
Other assets:  Materials and supplies Sinking funds—Sault Ste. Marie Bridge Co Debit balances from companies and individuals Trea-cury stock Bond, village mariae Bond. Chapin Mining Co St. Paul Union Depot stock New Jersey Bridge Con. Co. stock	\$347,829 50 7,501 72 196,000 84 225,600 00 200 00 40,200 00 43,750 00	
Income account.		861,582 06 824,291 99
Total		58,575,858 14
GENERAL BALANCE SHEET.—Cr.	,	
Capital stock		21,000,000 00
Funded debt:  First mort. M. & P. bonds.  First mort. M. St. A. bonds.  First mort. M., St. P. & S. S. M. consols.  Income certificates.  Car Trust notes.  Unfunded debt:		29,753,978 10
Interest unpaid	\$519,100 00 108,000 00 1,857,795 11	
Other liabilities: Pay rolls Foreign roads balances. Taxes.  Total.	151,730 20 94,763 96 89,990 77	2,821,380 04 53,575,358 14
COST OF BOAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches buil	t by compan	y.

# CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

		·					
	Extensions and new sidings.	Bridges & other con- struction.	New buildings.	New fences.	New loco- motives.	New cars.	Total.
Main line Branches: A. B. & N. W. R. R.	\$30,290 74 635 92	\$67,455 55	\$5,311 97	\$1,239 94	\$1,842 68	\$5,670 41	\$89,846 58 685 92
Total charges	\$30,926 66	<b>\$67,455</b> 55	\$5,311 97	\$1,239 94	\$1,842 68	\$5,670 41	<b>790,482 45</b>
Total charges to pro Property old and co Net addition to prop	perty accounted	t as above					\$101,464 83 10,982 88 90,482 45
	ANALYSIS		ings.—in s		MICHIGAN	ī.	
Main line and branc	hee:	PASS	enger hari	TINGS.			
Local fares Through fares						\$48,945 42 67,325 06	
Total passenger	fares					\$116,270 48	
Express and bagge MailsOther sources	age					7,769 50 24,966 69 6,284 76	
Total passenger	department e	arnings			-		\$155,291 43
Per train mile Per mile of road					·····	\$0 77.63 779 46	·
Main line and branc Local traffic Through traffic			EIGHT EAR			\$223,909 08 387,856 49	
Total traffic						\$611,765 57	
Other sources, frei						2,166 90	
Total freight der					-		613,932 47
Per train mile Per mile of road						\$1 86.16 8,081 52	010,802 %1
	ANAL	ysis of E	arnings	-ENTIRE 1	Lin <b>e</b> s.		
		PASS	ENGER EARN	INGS.			
Main line and branc							
Local fares Through fares						\$279,504 97 195,577 21	
Total passenger	fares					\$475,082 18	
Express and bagga Mails Other sources						37,377 36 160,927 70 25,171 95	
					-		\$693,589 19
Total passenger		arnings					BABBB 100 IB
	lepartment e					\$0 68.51 587 d6	<b>\$083,008</b> 18
Per train mile Per mile of road	lepartment e					\$0 68.51 587 d6	\$090,000 IS
Total passenger of Per train mile	lepartment e	FRI	IGHT BARNI	ngs.	\$1	587 d6 ,769,959 54	\$U\$3,008 IF

Other sources, freight department \$6,739 98	
Total freight department earnings	
Per train mile       \$1.84.72         Per mile of road       2,495.82	
Total transportation earnings, entire line.  Transportation earnings per mile of road	
From other sources (Michigan proportion \$3,943.91). 22,127 24 From other sources (Michigan proportion \$225.98) 1,145 16	
Total	3,688,043 80
Total earnings from operation of road	\$3,688,043 80
Total earnings per train mile 1 41.94 Proportion of taxable earnings for Michigan 1 3,826 65 . Income other than from earnings:	773,393 79
Car mileage	
Total income from all sources	
Proportion of income for Michigan; earnings, \$773,393.79; car mileage, \$7,476.06	780,869 85
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$226,906 61
Renewals of ties.	3,815 85 48,001 78
Renewals of tails Renewals of tests Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of docks and wharves	55,224 71
Repairs and renewals of fences, road crossings, signs and cattle guards	4,071 24 34,890 06
Repairs and renewals of docks and wharves	5,648 78
Repairs and renewals of telegraph.	0,000 00
Stationery and printing	441 18
Total	\$384,586 96
MAINTENANCE OF EQUIPMENT.	
Superintendence	\$25,184 05
Repairs and renewals of locomotives	177,004 61
Repairs and renewals of passenger care  Bepairs and renewals of freight cars	44,808 78 148,568 72
Bepairs and renewals of work cars	9,578 79
Repairs and renewals of work cars  Repairs and renewals of shop machinery and tools	12,868 95
Stationery and printing	1,908 24
Total	\$419,872 09
CONDUCTING TRANSPORTATION.	<b>220</b> 440 47
Superintendence Engine and roundhouse men	\$50,140 87 204,815 83
Fuel for locomotives	284,811 06
Water supply for locomotives.	15,604 02
Fuel for locomotives Water supply for locomotives Oil, tal ow and wate for locomotives Other supplies for locomotives	7,780 85 8,785 94
TTAID SOTVICE	104.408 85
Train supplies and expenses. Switchmen, flagmen and watchmen.	84,817 76 81,884 91
Telegraph expenses	50.952 60
Station service	145,593 92 9,821 08
Station supplies. Switching charges—balance	4,301 82
Car mileage—balance	30,862 <b>33</b>
Loss and damage.	5,249 21 20,481 78
Injuries to per-ons	36.799 59
Clearing weeks Operating marine equipment, including docks	1,732 89 85,825 67
Advertising	14,140 24
Outside agencies	78.950 47
Stock yards and elevators. Rents for tracks, yards and terminals.	4,993 90 65,686 38
Rent of buildings and other property	748 <b>63</b>
Stationery and printing Other expenses	
-	15,780 88 18,823 12

GENERAL EXPENSES.		
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies. Insurance Law expenses Stationery and printing (general offices) Other expenses Taxes		\$28,587 \$2 34,506 08 11,848 84 15,972 84 17,203 98 4,073 19 4,911 85 110,641 27
Total		\$222,226 77
RECAPITULATION OF EXPENSES.		
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes		\$384,586 96 410,872 00 1,263,006 01 222,226 77
Total operating expenses and taxes		
Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains, earning revenue,	88.18	1,977.99
2,598,291 miles Proportion of operating expenses and taxes for Michigan, main line		556,218 41
Total proportion of expenses for Michigan		\$556,218 41
Percentage of expenses to earnings	71.91 5 05 40.99	
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini:		
From Minneapolis, Minn., to Sault Ste. Marie, Mich., January 1, 1888.  From Minneapolis, Mun., to Lidgerwood, N. D., December 20, 1886.  From Lidgerwood, N. D. to Boynton, N. D., October 29, 1887.  From Boynton, N. D. to Merricourt, N. D., November 5, 1891.  From Cardigan Junction Minn., to St. Paul, Minn., February 22, 1888.  From Dresser Junction, Wie., to St. Croix Falls, Wis., September 12, 1887.  From Hankinson, N. D., to Valley City, N. D., Nov. 11, 1891.  From Valley City, N. D., to Cathay, N. D., December 1, 1893.  From Merricourt, N. D., to Kulm, N. D., November 13, 1892.  From Cathay, N. D., to Portal, N. D., September 25, 1899.		
MAIN LINE.	M///	3613
In Michigan, from Sault Ste. Marie to Menominee River. In Wisconsin, from Menominee River to St. Croix River. In Minnesota, from St. Croix River to North Dakota Line In North Dakota, from Minnesota line to Canadian boundary	Miles. *192.01 261.80 273.59 360.82	Miles.
Total length completed		1,039 22
From Gladstone, Mich., to end of track. From Gladstone, Mich., to end of track. From Setif, Mich., to end of track. From Cherry, Mich., to end of track. From Maronville, Mich., to end of track. From East Lake, Mich., to end of track. From Marblehead, Mich., to end of track. From Dresser Junction, Wis., to St. Croix Falls. From Brantwood, Wis., to end of track. From Glen Flors, Wis., to end of track. From Prentice, Wis., to end of track. From Rhinelander, Wis., to end of track. From Armstrong Creek, Wis., to end of track. From Cardigan Junction, Minn., to St. Paul. From Camden Place, Minn., to Northtown Junction. From Hankinson, N. D., to Kulm, N. D.	1.10 1.13 1.51 .73 .61 1.41 4.05 4.57 .40 .53 62 8.03 5 84 1.01	
Total length of branches owned by company		180.99
Total length of branches owned by company in Michigan Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company, computed as	198.89	1,170 21
Gauge of track, 4 feet 8% inches.		284.89
Goode of Macri & 1904 old metter		

# Proprietary or leased roads operated by this company.

Name, description and length of each: Mineacpoits and St. Paul terminals.  St. Faul to Mineacpoits.  Total.  Total.  Total miles operated by the company.  Number of bridges and trestles in Michigan.  Number.  Number of bridges and trestles in Michigan.  Number.  Number of bridges and trestles in Michigan.  Number.  Number.  132 2.449  Wooden bridges.  Total.  Total.  Corossings.—Railroad and highway.  Total.  Corossings.—Railroad and highway.  Number of bridges.  Corossings.—Railroad and highway.  Corossings.—Railroad and highway.  Logging R. R. at Flort Junction.  Logging R. R. at Holita Junction.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. R. at South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South Manistique.  Logging R. At South		Cotal miles.	In Michigan.
Total	Minneapolis and St. Paul terminals	.34	.34
Number of bridges and trestles in Michigan.  Number.  Number.  Number.  Number.  Number.  Number.  Number.  13  2.490  Total	•		.84
Number of bridges and trestles in Michigan.  Number. length, feet.  Wooden bridges 13 2.449 Wooden trestles, and approaches to bridges 2140.00  Total 103 16,459  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  D. S. S. & A. R. R. at Trout Lake. C. & N. W. R. R. at Hermansville. C. & N. W. R. R. at Fleich Junction. Longing R. R. at blaid Junction. Louging R. R. at State Junction. Louging R. R. at State Junction. Louging R. R. at State Junction. Louging R. R. at State Junction. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. R. at State Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Manistique. Louging R. At Ma			
Wooden bridges	Total miles operated by the company	1,100.71	
Total	,		length, feet.
What railroads cross your road at grade in this State, and at what locality?  D. S. S. & A. R. at Trout Lake. C. & N. W. R. R. at Hermansville. C. & N. W. R. R. at Hermansville. Logging R. R. at Deta Junction. Logging R. R. at Dunleith. Logging R. R. at Dunleith. Logging R. R. at Dunleith. Logging R. R. at Dunleith. Logging R. R. at South Manistique. Logging R. R. at South Manistique. Logging R. R. at Flat Rock.  At what crossings are interlocking and derailing switches in operation?  Feich Junction with C. & N. W. R'y.  What pattern or patterns have you adopted?, Union Switch & Signal Co.  Number of crossings of highways at grade in this State.  Number of crossings of highways over or under railroad—under  ### Are your frogs and guard rails blocked as required by act 174, session laws 18837  Yes.  Have are they treated?  Wood blocks.  Stations.  Number of stations on whole lines.  Stations.  Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Employés.  Number in Michigan.  Classify your employés as per following list:  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  Baggagemen.  B	Wooden treatles, and approaches to bridges.		14,010
What railroads cross your road at grade in this Stats, and at what locality?  D., S. S. & A. R. R. at Trout Lake. C. & N. W. R. R. at Hermansville. C. & N. W. R. R. at Felch Junction. Logging R. R. at Delta Junction. Logging R. B. at Dunieith. Logging R. B. at Sunieith. Logging R. B. at Sunieith. Logging R. B. at Sunth Manistique. Logging R. B. at Sunth Manistique. What railroads cross your road either over or under your grade in this State, and where? Over— C. & N. W. R. R. at Flat Rock.  At what crossings are interlocking and derailing switches in operation? Felich Junction with C. & N. W. By.  What pattern or patterns have you adopted?, Union Switch & Signal Co.  Number of crossings of highways at grade in this State.  Number of crossings of highways over or under railroad—under	Total	102	16,459
What railroads cross your road at grade in this Stats, and at what locality?  D., S. S. & A. R. R. at Trout Lake. C. & N. W. R. R. at Hermansville. C. & N. W. R. R. at Felch Junction. Logging R. R. at Delta Junction. Logging R. B. at Dunieith. Logging R. B. at Sunieith. Logging R. B. at Sunieith. Logging R. B. at Sunth Manistique. Logging R. B. at Sunth Manistique. What railroads cross your road either over or under your grade in this State, and where? Over— C. & N. W. R. R. at Flat Rock.  At what crossings are interlocking and derailing switches in operation? Felich Junction with C. & N. W. By.  What pattern or patterns have you adopted?, Union Switch & Signal Co.  Number of crossings of highways at grade in this State.  Number of crossings of highways over or under railroad—under			
D. S. S. & A. R. R. at Tront Lake. U. & N. W. R. R. at Hermanaville. U. & N. W. R. R. at Felch Junction. Logging R. R. at Dunietin. Logging R. R. at Dunietin. Logging R. R. at Dunietin. Logging R. R. at Nuninway. Logging R. R. at Nuninway. Logging R. B. at Manistique. What railroads cross your road either over or under your grade in this State, and where? Over. C. & N. W. R. R. at Flat Rock.  At what crossings are interlocking and derailing switches in operation? Felch Junction with C. & N. W. R.y.  What pattern or patterns have you adopted?, Union Switch & Signal Co.  Number of crossings of highways at grade in this State.  Lave safety guards been erected at overhead obstructions? Yes.  Are your frogs and guard rails blocked as required by act 174, session laws 1833? Yes.  How are they treated? Wood blocks.  Stations.  Number of stations on whole lines.  Stations.  Stations.  Stations.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.  Baggagemen.  Baggagemen.  Baggagemen.  Brakemen.  Conductors.  Brakemen.  Conductors.  Employed by engineers.  138 Regineers.  139 Regineers.  140 Regineers.  150 Regineers.  160 Regineers.  160 Regineers.  160 Regineers.  160 Regineers.  160 Regineers.  160 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineers.  170 Regineer	Orossings.—Railroad and highway.		
Number of stations on whole lines. 115 Same in Michigan	D., S. S. & A. R. R. at Trout Lake. C. & N. W. R. R. at Hermansville. C. & N. W. R. R. at Felch Junction. Logging R. R. at Delta Junction. Logging R. B. at Dunleith. Logging R. B. at Naubinway. Logging R. B. at South Manistique. Logging R. B. at Manistique.  What railroads cross your road either over or under your grade in this State, and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro		51 2
Employés.  Number of persons regularly employed on all roads operated by company, including officials Same in Michigan 2,082 428  Number in Classify your employés as per following list: Michigan.  Baggagemen 3 Brakemen 4 38 Conductors 18 Engineers 28 Firemen. Firemen are employed by engineers. 20 Bhopmen 32 Yardmen 19			
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen are employed by engineers Laborers Laborers Stopmen Yardmen 19	Number of stations on whole lines		
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan.  Classify your employés as per following list:  Baggagemen Brakemen Conductors Engineers Firemen are employed by engineers Laborers Laborers Stopmen Yardmen 19	Employés.		
Classify your employés as per following list:  Baggagemen	Number of persons regularly employed on all roads operated by company, include	ling officials	
Classify your employés as per following list:       Michigan.         Baggagemen       \$ 33         Brakemen       18         Conductors       23         Engineers       23         Fivemen. Firemen are employed by engineers.       100         Laborers       32         Vardmen       19	Same in anchigan		
Conductors			Michigan.
Conductors	Brakemen	}	
Laborers	Conductors		
Shopmen         82           Yardmen         19	Firemen. Firemen are employed by engineers.  Laborers.		
	ShopmenYardmen		82 19

#### REPAIRS AND RENEWALS.

# Fencing in Michigan.

How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed:	223.
and the countries in which needed:	Miles.
Menominee.	23
Delta	12
Schoolcraft	16.2
Mackinac	28.6
Chippewa	81.2
Total miles required	161
Road bed and track.	
Number of track sections in Michigan.	97
Average lengths of sections in midnight	27. 7. <b>3</b> 8
Average lengths of section, miles Average number of men in each section gang. Number of new ties put in whole line during the year.	4.
Number of new ties put in whole line during the year.	236,445.
Number of new ties put in track in michigan	<b>69,29</b> 8.
Average number of new ties per mile of road.	199.
New rails put in track:	8.19
Steel tons 359, 5-112 Total miles of track laid with new rails	3.19
Aver miles of made raid with new rails	0.15
DOLLING STOOK	D
	Present esti- mated value.
	TINGO ANTOS.
Number of locomotives of more than 30 tons weight, exclusive of tender	
Total 104	\$816,094 06
Number of passenger cars—12-wheel, including official cars	85,498 16
Number of passenger cars—8-wheel, including official cars	155,673 83
Number of express and baggage cars 28	45,183 71
Number of box freight cars	1,579,910 80 43,586 10
Number of stock cars 101 Number of platform cars 705	141.540 10
Number of ore sere	45,251 40
Number of conductors' way cars	49,881 00
Other cars as follows: Refrigerator, 13; furniture, 10; charcoal, 50; ballast, 52;	
maintenance of way, 10	<b>92,456 16</b>
Total5,662	\$3,055,075 32
	\$3,005,015 32
	_
Number of locomotives equipped with power brakes.	103
Number of passenger-train cars equipped with power brakes.	.68
Number of freight cars equipped with power brakes.	471
What patterns of power brakes have you in use, and number of locomotives and cars with	
each!	104
Locomotives—Westinghouse air, 94; steam, 10.  Cars—Westinghouse air, passenger equipped, 68; box freight, 419; flat, 52; ballast, 50;	108
plow, 2	591
Are your freight cars being equipped with automatic couplers as required by Act No. 147, S of 1885, as amended by Act No. 88. Session Laws of 1881?  We are complying with U. S. statutes.	ession Laws

We are complying with U. S. statutes.

How are your passenger cars heated? Steam heat and Baker improved fire proof heaters.

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines. I	n Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains	959,410 1,898,218 240,663	179,196 267,255 83,379
Total mileage of trains earning revenue.		529,830

# Passenger traffic.—Entire lines.

I descript trappo.— Dietre times.			
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue	40,338 234,904		
Total number of passengers carried, earning revenue	275,237		•
Number of passengers carried one mile	22,143,538		
Average distance carried		80.45	
Average amount received from each passenger		·	\$1 73 01.69 02.41 02.05
Passenger traffic.—In State of Michig	a <b>n.</b>		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	24,979 50,270		
Total number of passengers carried, earning revenue	75,249		
Number of passengers carried one mile	5,146,968		
Average distance carried		<b>68.3</b> 8	
Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.		:	\$1 54 01.85 03.21 02.53
Freight traffic.—Entire lines.			
	Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	946,409 1,169,248		
Total tons of freight carried, earning revenue	2,115,657		
Total milage of through freight. Total mileage of local freight. Total freight mileage or tons carried one mile		221,415,844 239,607,287 461,022,581	
Average ton hard for through freight  Average ton haud for local freight  Average ton haud for all freight		234 205 218	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average ton receipts per mile, for local freight  Average receipts ton per mile, for all freight			\$1 89 00.53 00.74 00.64
Freight traffic.—In State of Michiga		<b>3</b> 60	n
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 659,294 624,752	Miles.	Rate.
Total tons of freight carried, earning revenue	1,284,046		
Total mileage of through freight Total mileage of local freight		59, <sup>0</sup> 50,702 29,866,889	
Total freight mileage or tons carried one mile		88,917,591	
Average ton haul for through freight  Average ton haul for local freight  Average ton haul for all freight		89 48 69	
Average amount received for each ton haul.  Average receipts ton per mile, for through freight.  Average receipts ton per mile, for local freight.  Average receipts ton per mile, for all freight.			\$0 47.00 00.65 00.75 00.69

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	on this road. Whole tons.	roads and other carriers Whole tons.	Whole tons.	Per cent.
Products of agriculture:	171 007	4 505	455 500	00.46
Grain	474,065 284,218	1,727	475,792 284,410	22.48 13.44
Other mill products.	23,006	877	23.383	1.10
Hav	20.465	725	21,190	1.00
Hay Fruit, vegetables and potatoes	4,879	7.541	12,420	.58
Other products.	616	289	855	.Ó.
Products of animals:				
Live stock	11,476	114	11,590	.50
Dressed meats	6,789 887	97 1,455	6,886 2,342	.82
Wool Wool	3,636	1,433	3,67H	.11
Poultry, game and fish Wool Hides and leather	1,518	399	1,917	:06
Products of mines:				
Anthracite coal Bituminous coal and coke.	3,687	24,210	27,897	1.32
Bituminous coal and coke	12,508	63,709	76,217	8.60
Charcoal	13,646	536	14,182	.67
Ores Stone, sand and other like articles	41,449	259,915	801,864	14.24
Stone, sand and other like articles	2,752 1,478	549 5,621	3,301 7,099	.18 .88
Products of forest:			j l	
Lumber		ł		
Loge	615,023	46,900	661,928	81.29
Shingles				
Manufactures:	0.440	0 100	ا	~
Petroleum and other oils	3,443 1,296	3,168 8,077	6,611 9,378	.80 .44
SugarIron, pig and bloom	5,319	1,981	7.800	.84
Iron and steel rails	509	988	1.362	.00
Iron and steel rails Other castings and machinery	3,862	8,279	12,141	.57
Bar and sheet metal	276	1 820	1.096 [	.00
Cement, brick, and lime	12.857	990 1,157	13,847	.60
Agricultural implements	2,598	1,157	8,750	.17
Wagons, carriages, tools, etc. Wines, liquors and beers	369	509	878	.0
Wines, liquors and beers Household goods and furniture	2,738 1,755	1,920 690	4,658 2,445	.22
Other manufactured articles.	9,289	5,648	14,887	.22 .12 .70
Merchandise		27,675	71,879	3.87
Miscellaneous:				
Other commodities not mentioned above	14,148	15,345	29,488	1.89
Total tonnage	1,624,196	491,461	2,115,657	100

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.	193,798	529	194,327	15.13
Flour Other mill products	247,926 18,968	156 185	248,082	. 19.82
Other mill products	14,765	358	19,103	1.48 1.17
Hay			15,123	
Potatoes.	1,842	7,402	9,244	.72
Other products	223	142	365	.08
Products of animals:				
Live stock	394	70	464	.08
Dressed meats	6,193	97	6,290	.49
Poultry, game and fish	814 3,515	1,249	2,063 3,515	.16 .27
Dressed meats Poultry, game and fish Wool Hides and leather	1,199	67	1,266	.10
Products of mines:		1		
Anthracite coal	4,468	24,139	28,607 65,888	2.22
Bituminous coal and coke	2,499	63,389	65,888	5.12
Charcoal	13,566	536	14,102	1.00
OresStone, sand and other like articles	42,376	251,104	293,480	22.85
Salt	2,285 1,046	549 5,606	2,784 6,652	.21 .54
Products of forest:				
Lumber)	044 004	40.400	300 500	
Logs	244,601	19,196	263,797	20.54
Manufactures:	_			
Petroleum and other oils	32	2,680	2,712 8,235	.21
Sugar	157	8,078	8,235	.63
Iron, pig and bloom Iron and steel rails Other castings and machinery	5,076	1,968	7,044	.5!
Iron and steel rails	155 715	8,232	987	.07 .69
Bar and sheet metal	231	819	8,947 1,050	.06
Cement, brick and lime	10,214	932	11,146	.80
Agricultural implements	10,214	1,115	1,115	.00
Wagons, carriages, tools, etc.		484	1484	.0
Wagons, carriages, tools, etc. Wines, liquors and beers Household goods and furniture	1,481	1,810	3,241	.2
Household goods and furniture	333	660	993	.07
Other manufactured articles.	7,893	5,482	13,875	1.0
Merchandise	9,147	25,185	84,832	2.67
Miscellaneous:				
Other commodities not mentioned above	2,809	12,424	15,233	1.18
Total tonnage	838,621	445,425	1,284,046	100

# ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express Company.
They do a general express business, this company's station agents as a usual thing acting as their agents.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Miles of line, 1,178.6; miles of wire, 2,931.2. Owned by this company.

# REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1806.

# EILLED.

April 16, unknown, trespasser, near Radfords Spar. Struck by engine. May 20, Nick Nippler, trespasser, Corridge. Bun over by train. May 24, Miss Sofia Dohl, trespasser, Gindstone. Run over by train. October 18, Ole Oteson, trespasser, near Corridge. Drunk; run over.

# INJURED

January 5, Jun E. Robinson, brakeman, Caro. Slipped, sprained ankle.

January 9, C. W. Roger, switchman, Gladstone. Slipped while coupling; right leg cut off.

January 25, J. J. Kolinski, brakeman, Gladstone. Slipped; hip bruised.

January 25, E. J. Highee brakeman, Gladstone. Fel. from cupola in cab, wrist sprained. February 4, Eda Simmons, Soo Shutting car door, finger pinched February 5, H A Orestt, Front Lake Compling, two fingers jammed. February 19, Jno Kelice, North Escanaba Fell from car, a kic spreined. March 18 Jao Olson, trackman, near Gladstone. Struck by the chest bruited.
March 27, C. Lafaver, engineer. Whitedate. Water glass broke scaled hand.
April 6, (180. F. Dille), brakeman, Trout Lake. Usupling, thumberushed.
April 23, Jao E. Robi sen, brakeman, Gladstone. Hit by plank, foot sprained.
April 24, Beajamin Everett, cooper Gladstone. Hit by Latchet hand cut.
April 25, M. J. McKelvey, boiler maker, Gladstone. Blipped, back sprained.
May 10, Carl Popke trackman Van Winkle. Slipped, side braised.
May 10, Carl Popke, dockman, Gladstone. Glour fell up band, finger bruised.
Ints 6, Inc. Langlette. waterman, Gladstone. Complement and prinched. July 6 Inc. Lanciette, switchman, Gladetone. Compling, hand pinched. July 3 Mrs. A Rosebush, trospasser, near Bavee. Ran into valocipeds; right leg cut off. July 15 Hy Snyder, dockman Gladstone. Thumb cut on box merchandise.
July 24 M Graham, dockman, Gladstone. Ankle bruised, bit by truck
August 1, F Ri ler, machinist, Gladstone. Handling ore eye hurt.
August 4, W Bongher, dockman, Gladstone. here apraised, jumping into ore boat. August 13, Peter Ca. on, dockman, triadstone. Handling ore, tinger cut. August 18, Asfred J. Euson, dockman, triadstone. Fell under trucke, leg cut. August 19, Dan Nelson, dockman, Gladstone. Handling coal, leg bruised. August 24, Peter Peterson, dockman, Gladstone Handling coal flager bruised. August 25, Mike McCarthy, switchman, Gladstone. Courling, fingers pinched.

August 25, Adelbert Ensign, dockman, Gladstone. Handling merchandise hand cut,

August 26, Abert Olsen, Jockman, Gladstone. Handling merchandise hand cut, September 5, Geo H. Ellsworth brakeman, Hogleman. Hit by pole, shoulder hurt. September 17, B. Delaner, sectionman, 800. Run over by hand car leg bruised. September 21, Jas. Montgomery, boiler maker, Gladstone H t by piece of steel; eye hart. September 24 Jun Car son, dockman, Gladstone Dirt in eye September 25, C Marien, dockman, Gladstone. Raminto post Neck hort. October 2 O Peterson, car checker Gladstone Fell off hand car, scalp cut. October 9, L. Olson, machinist, Gladstone. Plece metal in eye; eye hurt. October 17 Ed Heater, switchman, Gladstone Check cut, hit by pin October 21, ir Moreau, switchman Gladstone Coupling hand bruised October 26, Jan Boyle switchman, Gladstone Coupling, thumb cut, October 24, Clas Anderson, dockman Gladstone Barrel fel. on foot, toe cut off. October 31 Ubal Wartell, dockman Gladstone Lifting barrel floor; back sprained. November 1. Jeo Goball, fireman Hermansville Hit by stand pipe, scalp wound. November 1. Jro Hoball, firenar Hermansville Hit by stand pipe, scalp wound.
October 24. h. Fuher, express messenger, near (orringe (arelateness, shot in ankle.
October 31. F. X. LaRue, dockman, Gladstone. Finger burt on barrel of flour.
November 10. Dell Ensign, dockman, Gladstone. Goupling; finger pinched,
November 15. N. Swadson, dockman, Gladstone. Handling ore; finger cut.
November 16. M. Miller, dockman, Gladstone. Hit head on beam; head cut.
November 17. Joe Bawyer, dockman, Gladstone. Hit by sack flour; neck hurt.
November 19. Ed. Polan, dockman, Gladstone. Hit head on beam; scalp cut.
November 19. Wm. Tennian, dockman, Gladstone. Hit head on beam; scalp cut.
November 27. Jae. Allen, brakeman, Rudyard. Toes bruised by barrel sugar.
November 28. Ole Olson, dockman, Gladstone. Hit by rack flour; knee sprained.
November 30. E. Bauns, dockman, Gladstone. Hit by rack flour; knee sprained.
November 30. F. Kandolph, brakeman, Hunts Spur. Blipped on gangway; knee sprained.
December 1, D. Btock, dockman, Gladstone. Slipped on gangway; knee sprained. December 1, D Stock, dockman, Gladstone Slipped on gangway; knee sprained.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed.		Injured.			
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars					8	
MiscellaneousTrespassers on tracks			4		47	1
Total	<b></b>		4		56	1

# BUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	4
Number of persons injured during the year	57

# CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Baggagemen Brakemen Kngineers		1 11 1	
Firemen Laborers Shopmen Vardmen		1 29 5 7	
Not classified above		56	54

# STATE OF MINNESOTA, BB. COUNTY OF HENNEPIN,

F. D. Underwood, general manager, and C. W. Gardner, auditor, of the Minneapolis, St. Paul & Sault Sts. Marie Railway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

F. D. UNDERWOOD, C. W. GARDNER.

Subscribed and sworn to before me this 13th day of April, A. D. 1897. [L. 8.]

W. R. COLLINS, Notary Public, Minnesota.

#### ANNUAL REPORT

OF THE

# MUNISING RAILWAY COMPANY.

For the year ending December \$1, 1896.

[Filed March 16, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, DAN. P. EELLS, Cleveland, Ohio.

Vice President, FAYETTE BROWN, Cleveland, Ohio.

Secretary, D. B. CHAMBERS, Cleveland, Ohio.

Auditor, H. A. ST. JOHN, Munising, Mich.

Treasurer, HOWARD P. EELLS, Cleveland, Ohio.

General Manager, EMMET H. SCOTT, La Porte, Ind.

General Superintendent, JAS. C. DOUGHERTY, Munising, Mich.

Chief Engineer, R. C. YOUNG, Munising, Mich.

Superintendent of Telegraph, H. W. BARRE, Munising, Mich.

Cashier, R. T. MAC LEAN, Munising, Mich.

General Passenger Agent, H. A. ST. JOHN, Munising, Mich.

General Freight Agent, H. A. ST. JOHN, Munising, Mich.

Attorney, A. ST. J. NEWBERRY, Cleveland, Ohio.

#### DIRECTORS.

DAN. P. EBLLS, Cleveland, Ohio.
FAYETTE BROWN, Cleveland, Ohio.
JOSEPH COLWELL, Cleveland, Ohio.
E. F. MICHAEL, LA PORTE, Ind.
ROBERT E. MORRISON, LA PORTE, Ind.
Terms expire July 20, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 20, 1895.

Number of stockholders at date of last election: 10.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock beld in Michigan at same date: \$207,000.00.

Date of annual meeting of stockholders: July 20.

General offices of the company are located at Munising, Mich.

# | GENERAL EXHIBIT. | Debit. | Credit. | \$35,902 24 | Total expenses, including taxes | \$18,280 42 | | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. | Sile. |

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association Par value of shares Number of shares issued Amount paid in on common	\$100 00 870,000 00	\$870,000 00
Total amount paid in, as per books of the company		870,000 00
Paid in per mile of road projected by company, 87 miles	•••••	10,000 00

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
30 year gold bonds	6%	Oct., 1926	New York City	\$2,000 00
Total funded debt				\$2,000 00

\$278,000.00 in total bonds (at the rate of \$8,000.00 per mile of completed track) have been issued but these are all except \$2,000.00 within control of the company.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For construction		\$840,227 75 45,788 58 12,855 05
For current balances		12,855 05
Total unfunded debt		\$398,881 38

# RECAPITULATION.

Total funded debt	\$2,000 00 398,881 38
Total debt liabilities.	\$400,881 88
Amount of debt liabilities per mile of road, 25.49 miles.  Total amount of stock and debt	15,727 01 1,270,881 88 49,858 03

# GENERAL BALANCE SHEET.-DR.

Construction account Equipment account	\$332,647 94 91,774 94	
Other investments:  Real estate and permanent contracts	780,208 50	
Cash items:		\$1,204,631 38
Cash	\$4,712 62 61,893 25	i
Dues from agents	4,667 52	71,278 40
Materials and supplies.  Debit balances from companies and individuals, sundry accounts	\$3,622 97 8,995 45	!
Desir belances from companies and individuals, sundry accounter		12,618,42
Total		\$1,288,528 20

# GENERAL BALANCE SHRET.—CR.

Capital stock Funded debt.	\$870,000 00 2,000 00	\$872,000 00
Unfunded debt: Notes payable	\$804,709 49	4012,000 00
Vouchers and accounts Profit and loss or income accounts	94,171 89 17,641 82	
1 1021 424 1030 01 1200 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 1000 at 100		416,523 20
Total		\$1,288,523 20
COST OF ROAD AND EQUIPMENT.	4 h.,	
Total cost for construction and equipment of road and branches buil	•	-
Total expended for construction and equipment Average cost per mile of road (not including sidings) 25.49 miles Proportion of cost for Michigan		\$424,422 88 16,650 56 16,650 56
· CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
MAIN LINE.		
Extensions and new sidings		\$323,496 97 9,151 87
New locomotives		28,459 72 68,315 22
Total		\$424,422 88
Total charges to property account as above.		424,422 88
Net addition to property account		424,422 88
ANALYSIS OF RARNINGS.—ROAD ALL IN STATE OF MIC	CHIGAN.	
ANALISIS OF MARNINGS.—BUAL ALL IN STATE OF MIN	J2104111	
PASSENGER BARNINGS.  Main line and branches:		
	\$3,436 30	
PASSENGER BARNINGS.  Main line and branches:		
PASSENGER BARNINGS.  Main line and branches:  Local fares	\$3,436 30	
Main line and branches:  Local fares  Total passenger fares  Express and baggage	\$8,436 30 \$3,436 80 \$28 85 569 31	24,334 46
Main line and branches: Local fares  Total passenger fares  Express and baggage Mails	\$8,436 30 \$3,436 80 \$28 85 569 31	\$4,394 46
Main line and branches:  Local fares  Total passenger fares  Express and baggage Mails  Total passenger department earnings  Per train mile  Per mile of road  FERIGHT EARNINGS.	\$3,436 30 \$3,436 80 328 85 569 31	£4,394 46
Main line and branches: Local fares  Total passenger fares  Express and baggage Mails  Total passenger department earnings  Per train mile  Per mile of road	\$3,436 30 \$3,436 80 328 85 569 31	24,334 46
Main line and branches: Local fares  Total passenger fares  Express and baggage Mails  Total passenger department earnings  Per train mile Per mile of road  Main line and branches: Local traffic	\$3,436 30 \$3,436 30 328 85 569 31 170 04 30,758 26 691 27	\$4,334 46 31,449 58
Main line and branches: Local fares  Total passenger fares  Express and baggage Mails  Total passenger department earnings  Per train mile Per mile of road  Main line and branches: Local traffic Through traffic	\$3,436 30 \$3,436 30 328 85 569 31 170 04 30,758 26 691 27	,
Main line and branches: Local fares  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings  Per train mile. Per mile of road.  Main line and branches: Local traffic Through traffic.  Total freight department earnings  Per train mile.	\$3,436 30 \$3,436 30 328 85 569 31 170 04 30,758 26 691 27 	,
Main line and branches: Local fares  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  Main line and branches: Local traffic.  Through traffic.  Total freight department earnings.  Per train mile. Per mile of road.  Total freight department earnings.  Per train mile. Per mile of road.  Total transportation earnings per mile of road.  Transportation earnings per train mile.	\$3,436 30 \$3,436 30 328 85 569 31 \$1 12 170 04 30,758 28 691 27 	31,449 58
Main line and branches: Local fares  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  Main line and branches: Local traffic. Through traffic.  Total freight department earnings.  Per train mile. Per mile of road.  Total freight department earnings.  Per train mile. Per mile of road.  Total transportation earnings, entire line.  Transportation earnings per mile of road.	\$3,436 30 \$3,436 30 328 85 569 31 \$1 12 170 04 30,758 28 691 27 	31,449 58
Main line and branches: Local fares  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  Main line and branches: Local traffic.  Through traffic.  Total freight department earnings.  Per train mile. Per mile of road.  Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation: From telegraph companies.  Total.	\$3,436 30 \$3,436 30 328 85 569 31 \$1 12 170 04 30,758 28 691 27 	31,449 58
Main line and branches: Local fares  Total passenger fares.  Express and baggage. Mails.  Total passenger department earnings.  Per train mile. Per mile of road.  Main line and branches: Local traffic Through traffic.  Total freight department earnings.  Per train mile. Per mile of road.  Total freight department earnings.  Total transportation earnings, entire line.  Transportation earnings per mile of road. Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation: From telegraph companies.	\$3,436 30 \$3,436 30 \$28 85 569 31 \$1 12 170 04 30,758 28 691 27 	31,449 58 \$35,783 99
Main line and branches:  Local fares  Total passenger fares.  Express and baggage.  Mails  Total passenger department earnings.  Per train mile.  Per mile of road.  Main line and branches:  Local traffic.  Through traffic.  Total freight department earnings.  Per train mile.  Per mile of road.  Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile.  Miscellaneous receipts from operating account, other than for transportation:  From telegraph companies.  Total.  Total earnings from operation of road.  Total earnings from operation of road.  Total earnings from operation of road.	\$3,436 30 \$3,436 30 \$28 85 569 31 \$1 12 170 04 30,758 28 691 27 	31,449 58 \$35,783 99 35,902 24 285,902 24
Main line and branches: Local fares  Total passenger fares.  Express and baggage Mails.  Total passenger department earnings  Per train mile. Per mile of road  Main line and branches: Local traffic Through traffic  Total freight department earnings  Per train mile. Per mile of road  Total transportation earnings per mile of road.  Transportation earnings per mile of road.  Miscellaneous receipts from operating account, other than for transportation: From telegraph companies.  Total  Total earnings from operation of road.  Total earnings per mile of road.  Total earnings per mile of road.  Total earnings per mile of road.	\$3,436 30 \$3,436 30 \$28 85 569 31 \$1 12 170 04 30,758 28 691 27 	31,449 58 \$35,783 99 35,902 24 \$35,902 24 1,408 81 2 81

# ANALYSIS OF EXPENSES.

MAINTENANCE	OF WAY	AND	STRUCTURES.

Repairs of roadway.		\$2,282 86 20 96
Total		\$2,303 25
MAINTENANCE OF EQUIPMENT.	•	
Superintendence. Repairs and renewals of locomotives Repairs and renewals of freight cars Stationery and printing.		\$64 95 238 16 787 98 20 98
Total		\$1,056 97
CONDUCTING TRANSPORTATION.		
Engine and roundhouse men.		\$3,248 28
Fuel for locomotives. Oil, tallow and waste for locomotives		1,981 17 42 79 2,909 22
Train service Frain supplies and expenses		104 48
l'elegradh expenses		568 42
Station service		2,188 06 159 25
Station supplies Switching charges—balance		2,096 59
Car mileage—balance Cr.	•	583 87 58 12
Loss and damage Stationery and printing		64 11
Other expenses		60 12
Total		\$12,897 13
GENERAL EXPENSES.		
Salaries of general officers		\$1,780 00 108 88
Salaries of cierks and attendants General office expenses and supplies Stationery and printing (general offices)		26 01 88 20
Total		\$2,003 0
	;	<del></del>
	er cent of xpenses.	
Maintenance of way and structures	12.61 5.79 70.63	\$2,308 28 1,056 97 12,897 13
Conducting transportation		12,897 18
Conducting transportation General expenses, including taxes.	10.97	2,003 0
Conducting transportation General expenses, including taxes  Total operating expenses and taxes.	100.00	2,003 0
General expenses, including taxes	100.00	\$18,260 42 \$716 88
General expenses, including taxes	10.97 100.00 0 miles.	\$18,260 42 \$716 88 1 45
General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,88%.	10.97 100.00 20 miles	\$18,280 42 \$716 88 1 43 \$18,260 42
General expenses, including taxes  Total operating expenses and taxes  Operating expenses and taxes per mile of road  Operating expenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,88%.	10.97 100.00 20 miles	\$18,280 42 \$716 88 1 43 \$18,280 42
General expenses, including taxes  Total operating expenses and taxes.  Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50,86%.	10.97 100.00 20 miles	\$18,280 42 \$716 85 1 45 \$18,260 42
Total operating expenses and taxes.  Deprating expenses and taxes per mile of road.  Deprating expenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%.  Net earnings per mile of road.  Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:	10.97 100.00 20 miles	\$18,280 42 \$716 88 1 43 \$18,280 42
Total operating expenses and taxes.  Describing expenses and taxes per mile of road.  Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%.  Net earnings per mile of road.  Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From Munising, Mich., to Mitchell, Mich., December, 1896.	10.97 100.00 20 miles	\$18,280 42 \$716 85 1 45 \$18,260 42
Total operating expenses and taxes	10.97 100.00 20 miles.	\$18,280 42 \$716 38 1 44 \$18,280 42 \$692 11 1 38
Total operating expenses and taxes  Deparating expenses and taxes per mile of road Deparating expenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Not earnings per mile of road  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.	10.97 100.00 miles.	\$18,260 42 \$716 38 1 48 \$18,260 42 \$692 11 1 32 Miles. 25.46
Total operating expenses and taxes	10.97 100.00 miles.	\$18,260 42 \$716 85 1 43 \$18,260 42 \$692 11 1 35 Miles. 25,49
Total operating expenses and taxes.  Total operating expenses and taxes per mile of road. Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.88%. Net earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell.  Total length of road belonging to this company in Michigan.	10.97 100.00 miles.	\$18,260 42 \$716 85 1 43 \$18,260 42 \$692 11 1 35
Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue, 12,77  Total proportion of expenses for Michigan  Percentage of expenses to earnings, 50.86%. Net earnings per mile of road. Net earnings per train mile.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell  Total length completed.  Total length of road belonging to this company in Michigan Aggregate length of tracks in Michigan belonging to this company, computed	10.97 100.00 20 miles. 25.49 8.67	\$18,260 42 \$716 85 1 43 \$18,260 42 \$692 11 1 35 Miles. 25,49
Total operating expenses and taxes  Describe a spenses and taxes per mile of road Describe a spenses and taxes per train mile run, for trains, earning revenue, 12,7  Total proportion of expenses for Michigan Percentage of expenses to earnings, 50.88%. Not earnings per mile of road Net earnings per train mile  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Munising, Mich., to Mitchell, Mich., December, 1896.  MAIN LINE.  In Michigan, from Munising to Mitchell Total length of road belonging to this company in Michigan Linggregate length in Michigan of sidings, spurs and other tracks not above enumerated.	10.97 100.00 20 miles. 25.49 8.67	\$18,280 \$716 \$1 \$18,280 \$18,280 \$1 \$18,280 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1

If north of parallel 44 of latitude? Yes.				
Give date road commenced to be be August 6, 1895.	uilt:			
Give date road completed: December, 1896.				
Give date road commenced to be of January 15, 1896.	perated:			
Where built from and to: From Munising, Mich., to Mitche	oll, Mich.		•	
Give exact number of miles:				
25.49 miles.	er of bridges and trestle	s in Michigan.	Number.	Aggregate length, feet.
Wooden bridges			8	456 2,553
Total			13	8,009
(	Crossings.—Railroad and	I highway.		
What railroads cross your road eit	her over or under your gr	ade in this State.	and where?	
Over: Duluth, South Shore & Atlantic				
Number of crossings of highways a	t grade in this State			4
Have safety guards been erected at No,-21 feet high.	t overhead obstructions?			
Are your frogs and guard rails bloc Yes.	sked as required by act 1	74, session laws of 1	8837	
How are they treated? Filled in with wooden blocks.	Stations.			
Number of stations on whole lines.				3
	Employés.			
Number of persons regularly em	niowed on all words on	arated by somnen	w including	
officials	proyec on an loads op	erated by compan	y, morading	46
Classify your employés as per follo	•			Number.
Brakemen				6 8
EngineersFiremen				8 3 3 15
Laborers				15 2
Shopmen Others				14
	REPAIRS AND RENEV	VALS.		
	Fencing in Michig	an.		
Give the number of miles required counties in which needed: Alger county	d to complete fence both	sides of your tra	ck in Michia	
Aiger county			••••••	50.98
	Road bed and tra	ck.		
Number of track sections in Michic Average lengths of sections, miles Average number of men in each sec				3. 8.47 5.
New bridges built during the year				
			<u> </u>	1
Location.	Kind.	Material.	Month built	Feet in length.
Au Train River	Howe trues	Wood	April, 1896. June, 1896.	. 56 112

ROLLING STOCK.
----------------

	Number.	Present esti- mated value.
Number of locomatives of more than 30 tons weight, exclusive of tender	. 14	\$ \$23,500 00 1 1,800 00 5 57,000 00
Number of conductors' way cars Other cars as follows: Russell logging cars	1	2 1,200 00
Total	. 198	
Number of locomotives equipped with power brakes  Number of pass-ager-train cars equipped with power brakes  Number of freight cars equipped with power brakes		. 8 1 185
What patterns of power brakes have you in use, and number of locomotives and	cars with	each?

Vhat patterns of power brakes have you in use, and number of locomotives and cars with each? 2 locomotives Westinghouse; 1 locomotive steam brake; 135 platform cars Westinghouse; 1 passenger car Westinghouse.

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Tower.

How are your passenger cars heated? Stoves.

#### MILEAGE, TRAFFIC, ETC.

Train mileage.			ln Michigan.
Miles run by freight trains during the year Miles run by mixed trains.			
Total mileage of trains earning revenue	••••••		12,790
Passenger traffic.—Road all in State of M	ichigan.		
Number of local passengers carried, earning revenue	Numbers. 11,552	Miles	Rate.
Total number of passengers carried, earning revenue	11,552		
Number of passengers carried one mile.  Average distance carried  Average amount received from each passenger  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.			\$0.30. 03.9
Freight traffic.—Road all in State of Mic	chigan. Tons.	Miles.	Rate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	1,636 77,006		
Total tons of freight carried, earning revenue	78,642		
Total mileage of through freight		9,816 958,576	
Total freight mileage or tons carried one mile		968,392	2
Average ton haul for through freight		124, <b>4</b> 81	
Average ton haul for all freight		123,139	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight			. 07

#### FREIGHT TRAFFIC MOVEMENT.—BOAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

Commoditiv	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:	80	887	417	.58
Flour Other mill products		813 116	313 116	.40 .10
Hay	52	507	559	.71 .71
Hay Fruit and vegetables	02	48	43	.06
Potatoes		160	160	.20
Products of animals:				
Dressed meats	106	i	106	.14
Other packing house products	100	47	47	.08
Hides and leather		56	56	.07
			*-	
Products of mines:	1	ا ـــا	اسا	•
Anthracite coal	1.187	65	1,636	.06 2.08
brone, sand and other like articles	1,101	120	1,000	2.00
Products of forest:				
Lumber		4,601	5,866	6.82
Logs	55,169	7,081	62,200	79.00
Shloglee	10	183	198	.24
Tan bark	ļ	896	896	1.14
Manufactures:	İ			
Petroleum and other oils		12	12	.02
Castings and machinery	52	1,789	1,841	2.84
Coment, brick and lime	1,444	1,251	2,695	8.42
Wagons, carriages, tools, etc.		12	12	.02
Wines, liquors and beers. Household goods and furniture.		484 195	484 195	.55
Staves and hoops	413		418	.53
Merchandiee	281	586	867	1.10
Total tonnage	59,559	19,068	78,642	100

# ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Western Express Co
The Munising Railway receives 5 cents on all packages less than 30 lbs. weight, 15 cents per 100 lbs. on all packages over 30 lbs. in weight. Take their freight at railway depots.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 18 miles; belongs to the Western Union Telegraph Co.

#### Fast freight lines.

To what fast freight lines or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
St. Paul Refrigerator Car Co  Hammond Refrigerator Line.  Swift Refrigerator Line.  Canadian Pacific Despatch.  St. Louis Refrigerator Car Co  Union Refrigerator Line.  Merchants' Despatch Transportation Co.	South St. Paul, Minn	\$0 09 1 45 2 88 22 09 04 11

STATE OF MICHIGAN, }88.

E. H. Scott, general manager, and H. A. St. John, Auditor, of the Munising Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

E. H. SCOTT,

General Manager.
H. A. ST. JOHN,

Auditor.

Subscribed and sworn to before me this 30th day of March, A. D. 1897.

[L. S.]

CLAUDE M. CASE,
Notary Public, Luce County, Michigan.

#### ANNUAL REPORT

#### OF THE

# PONTIAC, OXFORD & NORTHERN RAILROAD COMPANY,

For the year ending December 81, 1896.

[Filed April 23, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, HUGH PORTER, New York City.

Pice President, GEO. W. DEBEVOISE, New York City.

Secretary, WM. H. MURPHY, New York City.

Auditor, F. H. CARROLL, Pontiac, Mich.

Treasurer, HUGH PORTER, New York City.

General Superintendent, W. C. SANFORD, Pontiac, Mich.

Cashier, F. R. BOYD, JR., Pontiac, Mich.

General Passenger and Freight Agent, W. C. SANFORD, Pontiac, Mich.

Attorney, AUG. C. BALDWIN, Pontiac, Mich.

#### DIRECTORS.

HUGH PORTER, New York City.
GEO. W. DEBEVOISE, New York City.
L. A. HALE, New York City.
WM. H. MURPHY, New York City.
HENRY A. O'BRIEN, New York City.
A. C. BALDWIN, Pontiac, Mich.
W. C. SANFOED, Pontiac, Mich.
Terms expire Sept. 22, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 24, 1889.

Number of stockholders at data of last election: 8.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held in Michigan at same date. \$2,000.00.

Date of annual meeting of stockholders: First Wednesday after the third Monday in September.

General offices of the company are located at Pontiac, Mich.

GENERAL EXHIBIT.	-	
Total comings from operation	Debit.	Credit. \$119,692 58
Total earnings from operation Total expenses, including taxes	\$81,181 21	\$119,002 00
Net income		\$38,511 82
Interest on funded debt	5,256 68	
Balance applicable to dividends	\$30,030 00	\$38,254 64
Balance for the year Balance (profit and loss) last year		\$8,254 64 9,121 03
Miscellaneous income account, debits.  Balance forward to next year.	8,768 92 8,606 75	
	\$12,875 67	\$12,375 67

# ANALYSIS OF CAPITAL STOCK.

	ANALYBI	S OF CAL	PITAL STOCK.		
Amount authorised by charter or a Par value of shares			10,000		
Total amount paid in, as per b	ooks of t	he compan	y		1,000,000 00
Paid in per mile of road owned by	company	(100 miles	)		10,000 00
•	ANALYSI	S OF DE	BT ACCOUNTS.		
		FUNDED 1	DEBT.		
Class, character and date of i	. 0 0 88	Rate of interest.	When due.	Where payable.	Amount outstanding.
First mortgage bonds		6%	Jan. and July .		\$136,000 00
	1	UNFUNDED	DEBT.		
For what incurred.	Is ti	he same to	be funded or ho	w liquidated?	Amount.
For miscellaneous. For current balances					\$28,002 01 1,219 16
Total unfunded debt					\$24,221 17
	,	RECAPITUL	ATION.		
Total funded debt					\$196,000 00 24,221 17
Total debt liabilities					\$160,221 17
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road, 1	of road,	100 miles.		······································	1,602 21 1,160,221 17 11,602 21
G	ENERAL	BALANC	E SHEET.—Dr.		
Construction account					\$894,339 73 118,845 55
Due from agents				\$184,841 11 5,867 79	140,208 90
Other assets:  Materials and supplies  Debit balances from companies	and indiv	iduals		\$4,742 81 5,691 48	=
Total	•	<b>-</b>			\$1,163,827 92
G	ENERAL	BALANC	E SHEET.—Cr.		
Capital stock		······			\$1,000,000 00 136,000 00
Unfunded debt: Vouchers and accounts Profit and loss or income account	ite				24,221 17 8,606 75
Total					

# COST OF ROAD AND EQUIPMENT.

# Purchased by present company.

When purchased: Sept. 24, 1889. Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment Total cost to date of report Average cost per mile of road (not including sidings), 100 miles		4,839 78 8,845 55
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	ą.
Main line:		
Extensions and new sidings		\$125 07 200 00 125 17
New f-noss Total charges to property account as above		45 20 495 44
ANALYSIS OF EARNINGS ROAD ALL IN STATE OF MIC	CHIGAN.	
PASSENGER BARNINGS.  Main line and branches:		
Local faresThrough fares	\$38,471 78 931 26	
Total passenger fares.	\$84,408 04	
Express and baggage  Mails  Other sources	2,171 22 7,668 04 12 00	
Total passenger department earnings		\$44,249 30
Per train mile	<b>\$</b> 0 55 <b>442 49</b>	
PREIGHT BARNINGS.		
Main line and branches:		
Local traffic Through traffic	\$72,164 56 8,122 67	
Total traffic	\$75,287 28	
Total freight department earnings		75, <b>28</b> 7 23
Per train mile	<b>\$</b> 0 89 752 87	
Total transportation earnings, entire line Transportation earnings per mile of road. Transportation earnings per train mile.	1,195 36 72.56	\$119,586 58
Miscellaneous receipts from operating account, other than for transportation, as follows:		
From rents of tracks, yards and terminals. From rents not otherwise provided for.	120 00 36 00	
Total		156 00
Total earnings from operation of road. Total earnings per mile of road. Total earnings per train mile. Total taxable earnings per mile of road in Michigan	\$1,196 92 72.65 1,196 92	\$119,692 58
Total income from all sources		119,692 58

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway Renewal of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph Stationery and printing  Total  MAINTENANCE OF EQUIPMENT.		\$18,974 45 19 64 8,657 90 1,165 22 774 42 870 28 98 06 11 00 \$25,570 92
Superintendence. Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of work cars. Stationery and printing. Other expenses.  Total		\$1,219 54 3,417 86 555 99 1,626 49 36 31 11 00 76 01 \$6,943 20
CONDUCTING TRANSPORTATION.		
Superintendence.  Engine and roundhouse men. Free for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives. Other supplies for locomotives. Train service. Train supplies and expenses. Tralegraph expenses Station service. Station service. Station supplies. Cor mileage—balance. Loes and damage. Injuries to person. Advertising. Ontside agencies. Stationery and printing.		\$1,000 00 8,086 36 8,883 35 608 28 719 92 4,57 69 1,072 69 2,454 46 6,173 86 367 28 367 28 1,811 38 281 30 79 05 293 76 293 76 293 78 293 78 293 78 293 78 293 78 293 78 293 78 293 78 293 78
10641	••••••	
GENERAL EXPENSES.  Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Law expenses Stationery and printing (general offices) Other expenses Taxes		\$2,500 00 2,764 79 705 22 1,281 50 201 25 333 66 2,393 87
Total		\$10,181 29
RECAPITULATION OF EXPENSES.  Maint-nance of way and structures.  Maint-nance of equipment.  Conducting transportation General expenses, including taxes.	Per cent of expenses.  81.50 8.55 47.41 12.54	\$25,570 92 6,943 20 38,445 80 10,181 29
Total operating expenses and taxes	100	\$81,181 21
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 164,725 miles	\$0 49.28	\$811 81
Total proportion of expenses for Michigan		\$81,181 21
Percentage of expenses to earnings Not earnings per mile of road Net earnings per train mile	67.82	385 11 23.37

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Pontiac, Mich., to Caseville, Mich., October 8, 1883.

MAIN LINE.	Miles.	Miles.
In Michigan, from Pontiac to Caseville		100.59
Total length completed		100.59
Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	100.59 7.61	
Aggregate length of tracks in Michigan belonging to this company, compute track.	d as single	108.20
Gauge of track, 4 feet 8½ inches.		
Number of bridges and trestles in Michigan.		Aggregate
Wooden bridges		Length, feet. 1,370
Total	27	1,870
	<del></del>	
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality? Michigan Central R. R. at Oxford. Flint & Pere Marquette B. B. at Clifford. Saginaw, Tuscola & Huron R. B. at Pigeon.		
What railroads cross your road either over or under your grade in this State, a Over—	nd where?	
Chicago & Grand Trunk R. R. at Imlay City.		
At what crossings are interlocking and derailing switches in operation? Oxford.		
What pattern or patterns have you adopted? Saxby & Farmer, lever machine, made by Union Switch & Signal Co.		
Number of crossings of highways at grade in this State		107
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by Act 174, Session Laws of Yes.	18837	
How are they treated? Space between rails fitted with wood blocking.		
Stations.		
Number of stations on whole lines		22 22
Employés.		
Number of persons regularly employed on all roads operated by company, inclu (all in Michigan)	ding officia	ls 100
Classify your employés as per following list:		
Baggagemen		Number. 2
Brakemen Conductors		. 4
Engineers		. 8
Firemen. Laborers		82
ShopmenOthers		17 36
		100

REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you	. 194.1
Give the number of miles required to complete fence both sides of your track in Michigan, ' and the counties in which needed: Tuscola county	4
Road bed and track.	
Number of track sections in Michigan	16:
Average length of sections (miles)	
Number of new ties put in track in Michigan	35,238
Average number of new ties per mile of road	
Bridges and culverts.	
Amount of trestle work replaced with earth during the year, linear feet	
ROLLING STOCK. Number.	Present esti- mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	
	842,345 55
Number of passenger cars—8-wheel, including official cars 7 Number of express and baggage cars 1	
Number of box freight cars	18,800 00
Number of stock cars	
Number of conductors' way cars	
Total	\$76,500 00
Number of locomotives equipped with power brakes	
Number of passenger train cars equipped with power brakes	8
What patterns of power brakes have you in use, and number of locomotives and cars with Westinghouse automatic air brake, 8 cars, four locomotives; New York automatic air brake, 1 locomotive.  Are your freight cars being equipped with automatic couplers as required by act No. 147,	orake, 1 loco-
of 1885, as amended by act No. 88, session laws of 1887 Yes.	
What pattern or patterns have you adopted for use? Hinson.	
How are your passenger cars heated?  Hot water circulation. Mason anti-fire heaters.	

Train mileage.			
Miles run by passenger trains during the year Miles run by freight trains during the year Miles run by mixed trains		· · · · · · · · · · · ·	38.242
Total mileage of trains earning revenue		•	164,735
Passenger traffic.—In State of 1	lichigan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	. 499 . 61,251		
Total number of passengers carried, earning revenue	61,750		
Number of passengers carried one mile			\$0 55.7 01.89
Average receipts per mile for local passengers			02 53 02.51

MILEAGE, TRAFFIC, ETC.

## Freight traffic.-In State of Michigan.

Miles.	Rate.
92.1 31.8	
	\$0 87.4 01.44 02.71 02.61
	216,603 2,663,520 2,880,122 92.1 31.8

## FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

## Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freigi	freight tonnage.	
Commonty.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture: Grain	9,627	108 108 14	12,676 226 9,730 5,368 9,639	14.73 .26 11.30 6.28	
Products of animals: Live stock. Poultry, game and fish Wool.		102	3,788 292 117	4.40 .84 .14	
Products of mines: Anthracite coal Bituminous coal Stone, sand, and other like articles. Salt		3,271 8,272 46 885	3,271 8,272 46 775	3.80 9.61 .05 .90	
Products of forest: Lumber Logs Shingles, staves and barrels	8,984 1,019 3,130	2,854 879	11,788 1,019 8,509	13.69 1.18 4.08	
Manufactures: Petroleum and other oils. Sugar. Iron, pig, bloom and scrap Other castings and machinery. Coment, brick and lime. Agricultural implements Wagons, carriages, tools, etc. Wines, liquors and beers 'Household goods and furniture	170 78 125 1,890	152 65 109 77 1,560 10 300 36 86 58	152 65 279 150 1,685 10 2,130 86 176	.18 .07 .82 .17 1.95 .01 2.47 .04	
Merchandise	4,228	5,731	9,954	11.56	
Miscellaneous: Other commodities not mentioned above	369	575	944	1.10	
Total tonnage	61,879	24,213	86,092	100	

## ADDITIONAL QUESTIONS.

### Express companies.

What express companies run ou your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them; and do you take their freights at the depot, or at the office of such express companies?

American Express Company.

One and one-half and one and one-tenth first class freight rates and one-half fare for messengers.

General express business. Take their freights at depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

One hundred miles. Owned jointly by P., O. & N. R. R. Co. and Western Union Telegraph Co.

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR, 1896.

#### KILLED.

December 21, 1896, Lea Kelly, baggageman, Wilmot. Fell from side door of baggage car while train was standing at Wilmot, receiving injuries from which he died Dec. 23, 1896.

#### INJURNO.

June 10, 1896, Lea Kelly, baggageman, Pontiac. Loss of first two joints of index finger of right hand; coupling cars.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

0	Killed. Injured.					
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Coupling cars		i			1	
Total		1			1	

## SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	1
Number of casualties purely accidental	1
Number resulting from lack of caution, carelessness, or misconduct	1

### CLASSIFICATION OF RMPLOYES.

#### KILLED OR INJURED IN MICHIGAN.

:	Killed.	Injured.	Total.
Baggagemen	1	1	2
Total	1	1	2

## 453

## PONTIAC, OXFORD & NORTHERN RAILROAD COMPANY.

STATE OF MICHIGAN, BE.

W. C. Sanford, general superintendent, and F. H. Carroll, auditor, of the Pontiac, Oxford & Northern Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. of R. R.]

Signed,

W. C. SANFORD, F. H. CARROLL.

Subscribed and sworn to before me this 22d day of April, A. D. 1897.

WILL F. NORTH,
Notary Public, Oakland Co.

## ANNUAL REPORT

OF THE

# SAGINAW, TUSCOLA & HURON RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed January 25, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WILLIAM L. WEBBER, Saginaw, E. S., Mich. Vice President, GEORGE W. MOBLEY, Saginaw, E. S., Mich. Secretary, SAMUEL G. HIGGINS, Saginaw, E. S., Mich. Auditor, LOUIS F. OHLAND, Saginaw, E. S., Mich. Treasurer, WILLIAM H. HART, Saginaw, E. S., Mich. General Manager, WILLIAM L. WEBBER, Saginaw, E. S., Mich. Superintendent, WILLIAM H. WALLACE, Saginaw, E. S., Mich. Freight and Ticket Agent, WM. B. ROSEVEAR, Saginaw, E. S., Mich.

### DIRECTORS.

WILLIAM L. WEBBER, Saginaw, E. S., Mich. GEORGE W. MORLEY, Saginaw, E. S., Mich. JAMES B. PETER, Saginaw, E. S., Mich. JOHN S. ESTABROOK, Saginaw, E. S., Mich. SAMUEL G. HIGGINS, Saginaw, E. S., Mich. WILLIAM H. HAET, Saginaw, E. S., Mich. ISAAC BEARINGER, Saginaw, E. S., Mich. Terms expire May 21, 1897.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 24, 1881.

Number of stockholders at date of last election: 123.

Number of stockholders in Michigan at same date: 118.

Amount of full paid stock held in Michigan at same date: \$60.800.

Date of annual meeting of stockholders: Third Thursday of May each year.

Fiscal year of company ends December 31.

General offices of the company are located at Saginaw, E. S., Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		\$110,708 49
Net income		\$19,187 05
Interest on unfunded debt Balance for the year Balance, profit and loss last year Items not included in above, as follows:	\$68,548 08 49,411 08 209,916 14	
Debit \$5,411 11 Credit 1,007 68	<b>\$4,408 43</b>	
Balance forward to next year		263,730 60

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association. Par value of shares	\$600,000 00
Number of shares issued       1,283         Amount paid in on common       \$123,300 00         Amount paid in on shares not issued (number), 15       255 38	
Total amount paid in, as per book of the company	123,555 38
Paid in per mile of road owned by company, 66.57	1,856 02

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

\$1,000,000.60 first mortgage, 40 years 5 per cent bonds authorized to be issued to the Continental Trust Company of New York as trustee. Said bonds have not been sold, but are pledged as collateral security for advances made account of construction and equipment of the road. Date of issue September 1, 1891.

The advances for which issued as above, are shown below under unfunded debt and the bonds are not treated as a funded debt on the books of this company.

#### UNFUNDED DEBT.

	ORFUNDED DEBT.		
For what incurred.	Is the same to be funded or how liqu	idated.	Amount.
For real estate			\$715,290 51 50,059 59 54,247 79 434,443 08 3,254 25
Total unfunded debt			\$1,262,835 22
	RECAPITULATION.		
Total unfunded debt			\$1,262,335 22
			· · · · · · · · · · · · · · · · · · ·
Amount of debt liabilities per mil Total amount of stock and debt Stock and debt per mile of road, 6	e of road, 66.57 miles		18,962 52 1,885,890 60 20,818 54
G	PENERAL BALANCE SHEETDr.		
Construction account		\$760,578 84 219,888 92	
Other investments (specifying san	ne):		
Bay Port quarries General office building and grou Saginaw Bay Coal Co. stock	949,847 15 59,855 13 inds 14,597 68 1,500 00		
O MIOT TOM GOVERNO	400 00	160,200 00	\$1,105,662 76
Cash items:			01,100,001
Bills receivable		1,275 54	
Other assets:			6,852 46
Materials and supplies Debit balances from companies	and individuals	\$151 56 9,998 22	10,144 78
Profit and loss			268,780 60
Total			\$1,385,890 60

## GENERAL BALANCE SHEET.-CR.

Capital stock, amount paid in	·····	\$123,555 38
Unfunded debt:		
Vouchers and accounts	\$5,406 81	
Other liabilities:		
Co's and Ind'ls account, traffic         \$633 37           Co's and Ind'ls account, equipment         28,380 75           Treasurer State of Michigan, taxes 1896         2,214 07           Unclaimed wages         312 74           Miscellaneous accounts         20 00		
Miscellaneous accounts 20 00 Advances made, account construction and equipment and interest on same to and including December 31, 1896 1, 225,957 47	1,256,928 41	
		1,263,335 22
Total.		\$1,385,890 60
COST OF BOAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches buil	t by compan	y.
Total expended for construction and equipment		\$980,462 76
Total expended for construction and equipment Average cost per mile of road (not including sidings) 66.57 miles Proportion of cost for Michigan	• • • • • • • • • • • • • • • • • • • •	14,728 29 980,462 76
Proportion of cost for Michigan		500,102 10
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
MAIN LINE.		
Extensions and new sidings		\$162 68
New buildings New locomotives Land and land damages		9,233 08 7,250 00 6,370 58
Total charges		\$23,016 29
Total charges to property account as above.  Property sold and credited.  Net addition to property account.  ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MIC		23,016 29 1,383 75 21,632 54
PASSENGER BARNINGS.		
Main line and branches:  Local fares	\$30,196 88	
Through fares	5,630 65	
Total passenger fares	\$35,827 53	
Express and baggage	7 <i>2</i> 7 14 5,178 28	
Total passenger department earnings		\$41,782 90
Per train mile	<b>\$0 48</b> <b>626 90</b>	
PREIGHT EARNINGS.		
Main line and branches:  Local traffic	\$50,096 92	
Local traffic Through traffic	18,258 71	
Total traffic	\$68,350 63	
Total freight department earnings		<b>\$6</b> 8,3 <b>5</b> 0 <b>68</b>
Per train mile	1 60 1,028 75	
Total transportation earnings, entire line		\$110,088 58
Transportation earnings per mile of road	\$1,658 65 85	

Miscellaneous receipts from operating account, other than for transporta-	
tion, as follows: From telegraph	
Total	<b>\$</b> 619 <b>9</b> 6
Total earnings from operation of road	
Total earnings per mile of road	
Total taxable earnings per mile of road in Michigan 1,662 96 Income other than from earnings	842 82
Total income from all sources	\$111,546 31 111,546 81
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway.  Renewals of ties  Repairs and renewals of bridges and culverts.  Repairs and renewals of fences, road crossings, signs and cattle guards.  Repairs and renewals of buildings and fixtures.  Repairs and renewals of docks and wharves.  Repairs and renewals of telegraph  Stationery and printing.  Other expenses	\$11,967 01 10,075 78 1,085 18 453 24 1,648 99- 242 86 101 75 17 00
-	861 57
Total	\$25,933 38
MAINTENANCE OF EQUIPMENT.	
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools Stationery and printing Other expenses	\$1,020 00 7,732 41 2,668 84 2,097 18 242 58 11 40 540 00
CONDUCTING TRANSPORTATION.	
Superintendence. Engine and roundhouse men Fuel for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives. Other supplies for locomotives. Train service. Train supplies and expenses Switchmen, flagmen and watchmen. Telegraph expenses. Station service. Station service. Station supplies. Car mileage—Balance. Loss and damage. Advertising. Outside agencies. Rents for tracks, yards and terminals. Stationery and printing. Other expenses.	\$1,805 50- 7,829 61 8,421 11 470 93 44 93 34 63 6,668 82 922 14 327 01 2,356 24 4,556 79 310 28 705 22 112 88 1,337 70 106 17 1,200 00 833 61 31 93 \$38,449 82
GENERAL EXPENSES.	
Salaries of general officers. Salaries of clerks and attendants. General office expenses and supplies. Insurance. Law expenses Stationery and printing (general offices). Other expenses Taxes.  Total.	\$5,216 65 2,799 67 196 02 1,212 22 269 12 306 87 72 50 2,777 78

RECAPITULATION OF EXPENSES.		
	Per cent of expenses.	
Maintenance of way and structures	28.34	\$25,958 38
Maintenance of equipment.	15.68	14,812 41
Conducting transportation	41.99	88,449 82
General expenses, including taxes	14.04	12,850 68
Total operating expenses and taxes.		\$91,566 44
Operating expenses and taxes per mile of road		\$1,375 49
130,143 miles. Total proportion of expenses for Michigan.		70
Percentage of expenses to earnings	99 71	91,566 44
Net earnings per mile of road.	OE. 11	287 47
Net earnings per train mile		15
•		
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini:		
Saginaw to Sebewaing, April 4, 1882. Sebewaing to Bay Port, June 15, 1884. Bay Port to Bad Axe, July 1, 1886.		
•		
MAIN LINE.	Miles.	Miles.
In Michigan, from Saginaw to Bad Axe		64.88
BRANCHES.		
Bay Port from Bay Port Junction to Bay Port.	1.88	
Quarry from Quarry Junction to Quarry	1.81	
Quarry from Quarry Junction to Quarry Total length of branches owned by company	2.19	
Total length of branches owned by this company in Michigan  Total length of road belonging to this company	66.57	2.19
Torst length of tord delonging to this combany	00.01	66.57
Total langth of road halonging to this company in Michigan		
Total length of road belonging to this company in Michigan Aggregate length in Michigan of sidings, spurs and other tracks not above anumerated.		00.01
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	15.76 ed as single	82.83
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	15.76 ed as single	
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computerack.	15.76 ed as single	82.83
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated.  Aggregate length of tracks in Michigan belonging to this company, computerack.  Gauge of track, 4 feet 8% inches.	15.76 ed as single	

N	ımber. I	Length, feet.
Wooden bridges	12	576
Iron bridges	1	77
•		
Total	13	658
-		

## Draw bridges in Michigan.

How many on your line? One.

Where located, when built and length of draw span? Sebewaing; 1891; 35 feet.

Character of structure? Swing span on table pier.

Material of which constructed. Iron.

Height above water, and depth of water under bridge. 7 feet above water; 7 feet deep.

How swung, by engine or hand power? Hand.

Approaches straight or curved? Straight.

Do you require all trains to come to fall stop before crossing a draw, and how are they signaled? Yes, during season of navigation. Signaled by flag during day and lamp at night.

## Crossings.—Railroad and highway.

What railroads cross your road at grade in this State, and at what locality? Flint & Pere Marquette R. R. at Saginaw, E. S., Michigan. Michigan Central R. R. at Reese, Michigan. Pontiac, Oxford & Northern R. B. at Pigeon, Michigan.	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen	88 4
Are your frogs and guard rails blocked as required by Act 174, Session Laws of 1883? Yes.	
How are they treated? Substantially blocked with wood.	
Stations.	
Number of stations on whole lines	17
Employés.	
Number of persons regularly employed on all roads operated by company, including officials	97
Classify your employés as per following list:	Number.
Baggagemen Brakemen Conductors Engineers Firemen Laborers Shopmen Others	2 4 4 5 5 31 18 28
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
Fencing in Michigan.  How many miles of fencing have you: 133.14 miles.	
How many miles of fencing have you:	
How many miles of fencing have you: 133.14 miles.	11 6 3 39,583 39,583 595
How many miles of fencing have you:  133.14 miles.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan.	6 8 39,588 39,583
How many miles of fencing have you:  133.14 miles.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.	6 8 39,588 39,583
How many miles of fencing have you:  133.14 miles.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.  Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.	39,583 39,583 39,583 595 ——————————————————————————————————
How many miles of fencing have you:  133.14 miles.  Road bed and track.  Number of track sections in Michigan. Average lengths of sections, miles Average number of men in each section gang. Number of new ties put in whole line during the year. Number of new ties put in track in Michigan. Average number of new ties per mile of road.  Bridges and culverts.  Timber culverts replaced during the year: With stone.  ROLLING STOCK.	39,588 39,588 39,588 595
How many miles of fencing have you:  133.14 miles.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles.  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.  Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  P Number.  Number of locomotives of more than 30 tons weight, exclusive of tender.	39,583 39,583 39,583 595 ——————————————————————————————————
How many miles of fencing have you:  133.14 miles.  Road bed and track.  Number of track sections in Michigan.  Average lengths of sections, miles  Average number of men in each section gang.  Number of new ties put in whole line during the year.  Number of new ties put in track in Michigan.  Average number of new ties per mile of road.  Bridges and culverts.  Timber culverts replaced during the year:  With stone.  ROLLING STOCK.  Pumber. m  Number of locomotives of more than 30 tons weight, exclusive of tender.  9  Number of locomotives of 20 to 30 tons weight, exclusive of tender.  1	39,583 39,583 39,583 595 ——————————————————————————————————

	•		
Number of locomotive equipped with power brakes			10- 16
What patterns of power brakes have you in use, and number of low Westinghouse automatic, used on all equipment having power by	comotives an	d cars with	each?
Are your freight cars being equipped with automatic couplers as re 1885, as amended by act No. 88, session laws of 1887? Yes.	quired by ac	t No. 147, se	ession laws of
What pattern or patterns have you adopted for use? Thurmond and Hinson.			
How are your passenger cars heated? 'By steam from locomotive.			
MILEAGE, TRAFFIC, ETC.			
Train mileage.			In Michigan
Miles run by passenger trains during the year Miles run by freight trains during the year			87.366
Total mileage of trains earning revenue			180,148
Passenger traffic.—Road all in State of 1	lichigan.		
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	Numbers. 6,084 55,850	Miles	Rate.
Total number of passengers carried earning revenue	61,884		
Number of passengers carried one mile.  Average distance carried  Average amount received from each passenger.  Average receipts per mile for through passengers.		26.7124	\$0 57.894
Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers			02.187 02.168
Freight traffic.—Road all in State of M	ichigan.		<del></del>
	Tons.	Miles.	Bate.
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	23,484 71,782		
Total tons of freight carried, earning revenue	95,266		
Total mileage of through freight		798,210 2,744,075	
Total freight mileage or tons carried one mile		3,542,285	•
Average ton haul for through freight		33.9895 38.2278	

Average ton haul for all freight.

Average amount received for each ton haul
Average receipts ton per mile, for through freight
Average receipts ton per mile, for local freight
Average receipts ton per mile, for local freight

37.183

\$0 71.747 02.287 01.825 01.929

### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	ommodity.  on this road.  whole tons.  ontine road.  on this road.  other carriers  Whole tons.	Whole tons.	Per cent.		
Products of agriculture: Grain Flour and provisions Other agricultural products	9,489 8,767 5,120	59 11 3	9,548 3,778 5,128	10,02 3.97 5.38	
Products of animals: Live stock	2,432	2	2,484	2.55	
Products of mines: Anthracite coal Bituminous coal Stone, sand, and other like articles	307 21,296 22,906	1,670	307 21,296 24,576	. 32 22 . 35 25 . 80	
Products of forest: Lumber and shingles Heading and staves Other forest products	4,480 8,694 6,705	40	4,520 8,694 6,705	4.74 9.18 7.04	
Miscellaneous: Other commodities not mentioned above	5,679	2,606	8 <b>,28</b> 5	8.70	
Total tonnage	90,875	4,391	95,266	100.00	

### ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

- The American Express Co.
   At 1½ first class freight rates.
   General business.
   Freights are delivered to this company on board of express cars at its depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

- 67 miles.
   belongs to the S. T. & H. R. B. Co.

## TRANSPORTATION COMPANIES.

Sleeping, drawing-room and palace car companies.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigan, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report? No cars of this description have been in use on this road during the year.

### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of Company.	General office.	Amount paid.
Armour Car Line. Burton Stock Car Co	Chicago, III. Boston, Mass. Chicago, III. Indianapolis, Ind. New York City, N. Y. Boston, Mass. Chicago, III.	\$2 66 1 38 1 00 80 34 15 16 77 80

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### KILLED.

July 24, Sophia Miller, old woman, Pigeon, Mich. Struck by engine of train No. 2; trespasser.

#### INJURED.

June 21, Wm. Gall, laborer, Sebewaing, Mich. Fell in coal shed; leg broken; own carelessness.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.	Killed. Injured.			Injured.		
<u> </u>	Passengers,	Employés.	Others.	Passengers.	Employés.	Others.
Miscellaneous			i		1	
Total			1		1	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	1
Number of persons injured during the year	j
Number resulting from lack of caution, carelessness, or misconduct	1
Trespassers and tramps killed or injured	1

## CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Laborers		1	1
Total		1	1

STATE OF MICHIGAN, So. COUNTY OF SAGINAW,

W. L. Webber, president, and L. F. Ohland, auditor, of the Saginaw, Tuscola and Huron Bailroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WM. L. WEBBER, L. F. OHLAND.

Subscribed and sworn to before me this 23d day of January, A. D. 1897.

JOHN W. BILLING, Notary Public.

## THREE MONTHS' REPORT

OF THE

## SAGINAW VALLEY & ST. LOUIS RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed April 16, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass.
General Auditor, C. W. COURTRIGHT, Boston, Mass.
Auditor, U. B. ROGERS, Grand Rapids, Mich.
Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.
General Manager, CHAS. M. HEALD, Grand Rapids, Mich.
General Superintendent, J. K. V. AGNEW, Grand Rapids, Mich.
Assistant Superintendent, T. H. MALONE, Ionia, Mich.
Chiaf Engineer, J. J. McVEAN, Grand Rapids, Mich.
General Passenger Agent, GEO. DEHAVEN, Grand Rapids, Mich.
General Freight Agent, F. V. DAVIS, Grand Rapids, Mich.
Attorney, WM. ALDEN SMITH, Grand Rapids, Mich.

## DIRECTORS.

NATHANIBL THAVER, Boston, Mass.
E. V. R. THAVER, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
GEO. O. SHATTUCK, Boston, Mass.
G. St. L. ABBOTT, Boston, Mass.
J. A. BUENHAM, Boston, Mass.
C. F. ADAMS, Boston, Mass.
A. H. HARDY, Boston, Mass.
HI. NEWCOMB, Boston, Mass.
F. H. DAMON, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire July 8, 1896.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 17, 1871.

Number of stockholders at date of last election: 84.

Number of stockholders in Michigan at same date: 66.

Amount of full paid stock held in Michigan at same date: \$25,200.

Date of annual meeting of stockholders: Second Wednesday in July.

Fiscal year of company ends December 31.

General offices of the company are located at Grand Rapids, Mich.

GE	NERAL I	EXHIBIT.		Debit.	Credit.
Total earnings from operation					\$21,584 81
				\$16,765 05	
Net income					\$4,819 76
Interest on funded debt		·		\$8,920 00 220 50 1,750 00	1
Balance for the three months				6,070 74 190,864 97	
Balance forward				\$196,935 71	
ANALYS	IS OF CA	PITAL STOCK.			
Amount authorized by charter or articles o	f associati	lon			<b>\$300,000 00</b>
Par value of shares		2,553	\$100 00		•
Amount paid in on common  Amount paid in on shares not issued (num)	ber) 95			\$255,900 00 9,504 01	ı
Total amount paid in, as per books of t					264,804 00
Paid in per mile of road owned by company					7,459 27
Tall In por mile of road owned by company	,,	•			
ANALYSI	S OF DE	BT ACCOUNTS.			
	FUNDED	DEBT.			
Class, character and date of issue.	Rate of Interest.	When due.	Where	payable.	Amount outstanding.
First mortgage bonds	. 8%	May 1, 1902	New Y	ork City	\$446,000 00
	UNFUNDED				
For miscellaneous—to be paid from earning					\$209,831 08
For miscendificus—wood para from caram	80	· · · · · · · · · · · · · · · · ·			
1	RBCAPITUI	ATION.			
Total funded debt					\$446,000 00 209,331 08
Total debt liabilities					\$655,331 08
Amount of debt liabilities per mile of road,	, <b>35.50 mile</b>	0			18,460 05
Total amount of stock and debt.  Stock and debt per mile of road, 35.50 miles				· · · · · · · · · · · · · · · · · · ·	920,135 09 25,919 30
				•	
GENERAL	BALANO	E SHEET.—Dr.			
Construction account				\$605,016 16 87,037 00	\$690,053 16
Cash items:				e1 000 40	***************************************
Cash Due from agents				\$1,839 43 858 69	9 800 10
Other assets:					2,698 12
Materials and supplies	riduals			\$5,614 21 24,833 89	30,448 10 196,935 71
Profit and loss					
Total			<del>-</del> -		\$920,135 09

## GENERAL BALANCE SHEET.-CR.

GENERAL BALANCE SHEET.—CR.		
Capital stock. Funded debt.	\$264,804 01 446,000 00	<b>8710.804 01</b>
Unfunded debt: Interest unpaidVouchers and accounts	\$104,066 67 8,142 18	\$110,00E UZ
Other liabilities: Net traffic balances due other companies Saginaw & Grand Rapids R. R. Detroit, Lansing & Northern R. E.	1,465 66 87,1×3 27 58,473 80	209,881 06
Total		\$920,185 09
COST OF BOAD AND EQUIPMENT.		
Total cost for constructio , and equipment of road and branches built	by company	•
Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 35.50 miles  Proportion of cost for Michigan		\$690,053 16 19,438 12 690,053 16
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGA	N.	
PASSENGER BARNINGS.		
Main line and branches: Local fares Through fares	\$11,158 40 281 08	
Total passenger fares	\$11,439 48	
Express and baggage	420 00 1,055 40	
Total passenger department earnings		\$12,914 88
Per train mile Per mile of road	\$0 79 286 <b>36</b>	
FREIGHT BARNINGS.		
Main line and branches: Local traffic	8,280 78 873 58	
Total traffic	\$8,604 36	
Total freight department earnings		8,604 86
Per train mile Per mile of road	\$1 23 190 78	
Total transportation earnings, entire lines		\$21,519 24
Transportation earnings per mile of road	477 14 92	
Miscellaneous receipts from operating account, other than for transportation, as follows:  From telegraph companies	15 57 50 00	
From other sources Total		65 57 21,584 81
Total earnings from operation of road Total earnings per mile of road Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	\$478 60 92 21,584 81 478 60	\$21,584 81
Total income from all sources		21,584 81
Proportion of income for Michigan		21,584 81
•		

## ANALYSIS OF EXPENSES.

## MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway		\$2,476 45 180 14 771 19 5 24 284 85 115 93 24 15 6 58 \$3,814 58
MAINTENANCE OF EQUIPMENT.		
Superintendence Repairs and renewals of locomotives Repairs and renewals of passenger cars Repairs and renewals of freight cars Stationery and printing Other expenses  Total		\$91 87 122 56 122 67 587 20 5 81 58 81
CONDUCTING TRANSPORTATION.	:	
		*****
Superintendence. Engine and roundhouse men. Fuel for locomotives. Water supply for locomotives. Oil, tallow and waste for locomotives. Other supplies for locomotives. Train service. Train supplies and expenses Station service Station service Station supplies Car mileage—balance Loca and damage Injuries to persons Advertising Outside agencies Stock yard and elevators Stationery and printing Other expenses.		\$262 44 1,799 21 2,419 72 86 14 75 36 9 88 1,332 89 162 48 438 18 1,644 76 162 26 903 83 16 88 13 62 43 50 638 95 8 67 592 20 1 00
GENERAL EXPENSES.		
Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies. Insurance Law expenses Stationery and printing (general offices) Other expenses		\$288 60 835 27 29 19 57 27 154 59 49 66 19 51 481 69
		<b>61</b> 980 78
RECAPITULATION OF EXPENSES.	Per cent of expenses.	\$1,380 78
Maintenance of way and structures	22.75	\$3,814 53
Maintenance of equipment	5.90	988 42
Conducting transportation	63.23	10,601 32
General expenses, including taxes	8.12	1,360 78
Total operating expenses and taxes	100.00	\$16,765 05
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 23,334 miles.	\$371 78 72	
Proportion of operating expenses and taxes for Michigan		\$16,765 05
Percentage of expenses to earnings  Net earning per mile of road  Net earnings per train mile	106 87 20	

## DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Paine's to St. Louis, January, 1873.
From Alm : to Ithaca, March, 1883.

From Alm's to Lumba, March, 1000	
MAIN LINE.   Miles.  In Michigan, from Paine's to St. Louis	Miles
Total length completed.	28.60
BRANCHES.	20.00
F:om Alma to Ithaca	
Total length of branches owned by company	6.90
Total length of branche; owned by company in Michigan	
Total length of road belonging to this company	85.50
Total length of road belonging to this company in Michigan 85.50 Aggregate length of stdings, spurs and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company computed as single track	4.12 39.52
Gauge of track, 4 feet 8% inches.	
Proprietary or leased roads operated by this company.	In Michigan.
Name, description and length of each: Saginaw & Grand Repids R. R., St. Louis to Alma Jackson, Lansing & Saginaw R'y, East Saginaw to Paine's	8.60 6.00
Total	9.60
Total miles operated by company	45.10
Number of bridges and trestles in Michigan.	Aggregate length, feet.
Wooden bridges 2	63
Wooden trestles 6	478
Total 8	541
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Ann Arbor R. R. at St. Louis.	
Number of crossings of highways at grade in this State.	65
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.	
How are they treated? Hart guard and blocked with plank.	
Stations.	
Number of stations on whole line	13 13
Employés.	
Number of persons regularly employed on all roads operated by company, including	
officials Same in Michigan	55 55
Classify your employés as per following list:	Number.
RaggagemenBrakemen	1
Conductors	4 8 8 8
EngineersFireman	3
LaborersOthers	19 22

## REPAIRS AND RENEWALS.

Fencing:	in	Mic	chi	gan.
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Pencing in Michigan.		
How many miles of fencing have you? 78.14 miles.		
Road bed and track.  Number of track sections in Michigan.		7
Average lengths of section (miles)	5.68	
Average lengths of section (miles)  Average number of men in each section gang  Number of new ties put in whole line during the three months  Number of new ties put in track in Michigan		3 10 10
-		
ROLLING STOCK.	Number.	Present esti- mated value.
Number of locomotives of 20 to 80 tons weight, exclusive of tender	. 8	\$7,500 00
Total.	8	\$7,500 00
		\$5,000,00
Number of passenger cars—8 wheel, including official cars	<u>.</u>	1,500 00
Number of box freight cars.	. 10 40	
Number of platform cars. Number of conductor's way cars.	. 18	400 00
Total		23,900 00
Number of locomotives equipped with power brakes		3 3
What patterns of power brakes have you in use, and number of locomotives and	cars with	8
each?		
Westinghouse—locomotivespassenger cars		8
Are your freight cars being equipped with automatic couplers as required by ac of 1885, as amended by act No. 88, session laws of 1887?	t No. 147,	session laws
What pattern or patterns have you adopted for use?		
Gould Automatic.		
How are your passenger cars heated.		
How are your passenger cars heated. Steam.		
How are your passenger cars heated. Steam. MILEAGE, TRAFFIC, ETC.		
Steam. MILEAGE, TRAFFIC, ETC.		In Michigan. 16,416 6,968
Steam.		In Michigan. 16,416 6,968 303
Steam. MILEAGE, TRAFFIC, ETC.		16,416 6,968 308
Steam.  MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year  Miles run by mixed trains  Total mileage of trains earning revenue.		16,416 6,968 308
Steam.  MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year  Miles run by mixed trains		16,416 6,968 308
Steam.  MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year  Miles run by mixed trains  Total mileage of trains earning revenue.		16,416 6,968 309 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Numbers.  Number of through passengers carried earning revenue.  230		16,416 6,968 309 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue. 21,756		16,416 6,968 309 28,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,755  Total number of passengers carried earning revenue.  21,986 Number of passengers carried one mile.  417,897	Miles	16.416 6,968 303 23,384
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230  Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986  Number of passengers carried one mile.  417,897	Miles.	16.416 6,968 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986 Number of passengers carried one mile.  Average amount received from each passenger.  Average amount received from each passenger.	Miles.	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986 Number of passengers carried one mile.  Average amount received from each passenger.  Average amount received from each passenger.	Miles.	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230  Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986  Number of passengers carried one mile.  417,897	Miles.	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,136  Total number of passengers carried earning revenue.  21,986 Number of passengers carried earning revenue.  21,986 Number of passengers carried one mile.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.	Miles.	16.416 6,988 303 28,384 
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,866 Number of passengers carried earning revenue.  21,986 Average distance carried.  Average distance carried.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan.	Miles.	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986 Number of passengers carried one mile.  Average distance carried.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan.  Tons.	Miles.	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230  Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,756  Number of passengers carried earning revenue.  417,897  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  258  Number of tons of local freight carried earning revenue.  258	Miles.	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  220 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986 Number of passengers carried one mile.  Average distance carried.  Average amount received from each passengers.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile fur all passengers.  Number of tons of through freight carried earning revenue.  258 Number of tons of freight carried earning revenue.  258 Total tons of freight carried earning revenue.  19,466	Miles.	16.416 6,988 303 23,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230  Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,756  Number of passengers carried earning revenue.  417,897  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  258  Number of tons of local freight carried earning revenue.  258	Miles.	16.416 6,958 303 23,384  Rate.  \$0 52.081 02.716 02.736 72.787 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,886 Number of passengers carried one mile.  417,897 Average distance carried Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  253 Number of tons of freight carried earning revenue.  19,208  Total tons of freight carried earning revenue.  19,466  Total mileage of local freight Total mileage or tons carried one mile.	Miles. 19.007	16.416 6,958 303 23,364  Rate.  40 52.081 02.716 02.738 02.737 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,886 Number of passengers carried one mile.  417,897 Average distance carried Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  253 Number of tons of freight carried earning revenue.  19,208  Total tons of freight carried earning revenue.  19,466  Total mileage of local freight Total mileage or tons carried one mile.	Miles.  19.007  Miles.  11,610 420,755 432,365	16,416 6,968 303 23,384  Rate.  \$0 52.081 02.716 02.736 02.737  Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Numbers.  Number of through passengers carried earning revenue.  230  Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986  Number of passengers carried one mile.  Average distance carried.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile fur all passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  258  Number of tons of local freight carried earning revenue.  19,208  Total mileage of through freight  Total mileage of through freight  Total freight mileage or tons carried one mile.  Average ton haul for through freight.  Average ton haul for through freight.	19.007 Miles.  11,610 420,755 432,365	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,886 Number of passengers carried one mile.  Average distance carried.  Average amount received from each passenger.  Average receipts per mile for ihrough passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  253 Number of tons of freight carried earning revenue.  19,208  Total tons of freight carried earning revenue.  19,466  Total mileage of through freight  Total freight mileage or tons carried one mile.  Average ton haul for through freight.  Average ton haul for through freight.  Average ton haul for local freight.  Average ton haul for local freight.	Miles.  19.007  Miles.  11,610 420,755  432,365  45.000 21.905 22.211	16,416 6,958 303 23,384  Rate.  \$0 52,081 02.716 02.736 72.787 Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230  Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986  Number of passengers carried earning revenue.  21,986  Number of passengers carried earning revenue.  21,986  Number of passengers carried one mile.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  258  Number of tons of freight carried earning revenue.  19,208  Total mileage of through freight  Total mileage of through freight  Total freight mileage or tons carried one mile.  Average ton haul for through freight  Average ton haul for call freight  Average ton haul for call freight  Average ton haul for each ton haul	Miles.  19.007  Miles.  11,610 420,755  432,365  45.000 21.905 22.211	16.416 6,988 303 28,384 Rate.
MILEAGE, TRAFFIC, ETC.  Miles run by passenger trains during the year. Miles run by freight trains during the year. Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230 Number of local passengers carried earning revenue. 21,756  Total number of passengers carried earning revenue. 21,886 Number of passengers carried one mile. 417,897 Average distance carried. Average receipts per mile for through passengers. Average receipts per mile for through passengers. Average receipts per mile for local passengers. Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan. Tons. Number of tons of through freight carried earning revenue. 258 Number of tons of freight carried earning revenue. 19,208  Total ons of freight carried earning revenue. 19,466  Total mileage of through freight Average ton haul for through freight. Average ton haul for through freight. Average ton haul for through freight. Average ton haul for through freight. Average ton haul for all freight. Average receipts ton per mile, for through freight. Average receipts ton per mile, for through freight. Average receipts ton per mile, for through freight. Average receipts ton per mile, for through freight.	Miles.  19.007  Miles.  11,610 420,755 432,365 45.000 21.903 22.211	16.416 6,988 303 23,384 Rate. \$0 52.081 02.716 02.736 02.737 Rate.
Miles run by passenger trains during the year.  Miles run by freight trains during the year.  Miles run by mixed trains.  Total mileage of trains earning revenue.  Passenger traffic.—Road all in State of Michigan.  Number of through passengers carried earning revenue.  230  Number of local passengers carried earning revenue.  21,756  Total number of passengers carried earning revenue.  21,986  Number of passengers carried earning revenue.  21,986  Number of passengers carried earning revenue.  21,986  Number of passengers carried one mile.  Average amount received from each passenger.  Average receipts per mile for through passengers.  Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers.  Freight traffic—Road all in State of Michigan.  Tons.  Number of tons of through freight carried earning revenue.  258  Number of tons of freight carried earning revenue.  19,208  Total mileage of through freight  Total mileage of through freight  Total freight mileage or tons carried one mile.  Average ton haul for through freight  Average ton haul for call freight  Average ton haul for call freight  Average ton haul for each ton haul	Miles.  19.007  Miles.  11,610 420,755 432,365 45.000 21.903 22.211	16.416 6,988 303 23,384 Rate. \$0 52.081 02.716 02.736 02.737 Rate.

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight	Freight re- ceived from connecting	Total freight tonnage.		
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:	700		700	4.10	
Grain Flour	796 102	3 24	799 126	4.10 .65	
Flour Other mill products	22	ii	83	.17	
Hay. Fruit and vegetables	175 40	17	175 57	.90 .29	
Products of animals:				40	
Live stock Dressed meats	90 94	1 5	94 103	.48 .53	
Other packing house products	17	8	20	.10	
Other packing house products	5 9	10	5 19	.03 .10	
Products of mines: Anthracite coal	45		45	.28	
Bituminous coal	45		45	.23	
Stone, sand and other like articles	1,784	15 2	15 1,786	.08 9.17	
Products of forest:					
Lumber	6,061	7,108	13,164	67.63	
Manufactures: Petroleum and other oils	122	17	139	.71	
Castings and machinery		l åi	101	.54	
Cement, brick, and lime.	137	25	162	.83	
Agricultural implements.	24	9	83 5	.17	
Wagons, carriages, tools, etc. Wines, liquors and beers	23	28	51		
Household goods and furniture	88	56	144	.26 .74	
Merchandise	715	506	1,221	6.27	
Miscellaneous: Other commodities not mentioned above	1,061	60	1,121	5.76	
Total tonnage	11,503	7,968	19,466	100.00	

## ADDITIONAL QUESTIONS.

## Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The American Express Co. They handle their own freight.

## Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 32.19. Western Union Telegraph Co.

# STATE OF MICHIGAN, }88.

Charles M. Heald, general manager, and U. B. Rogers, auditor, of the Saginaw Valley & St. Louis Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of March, A. D. 1896, to the best of their knowledge and bolief.

[L. S. OF R. R.]

Signed,

CHAS. M. HEALD, U. B. ROGERS.

Subscribed and sworn to before me this 14th day of April, A. D. 1897.

ERNEST N. WELLER, Notary Public, Kent Co., Mich.

### THREE MONTHS' REPORT

OF THE

## SAGINAW & GRAND RAPIDS RAILROAD COMPANY,

For the three months ending March \$1, 1896.

[Filed April 24, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, NATHANIEL THAYER, Boston, Mass. Secretary, JAMES E. HOWARD, Grand Rapids, Mich. Treasurer, JAMES E. HOWARD, Grand Rapids, Mich.

### DIRECTORS.

NATHANIEL THAYER, Boston, Mass.
E. V. R. THAYER, Boston, Mass.
CHARLES MERIAM, Boston, Mass.
G. O. SHATTUCK, Boston, Mass.
A. H. HARDY, Boston, Mass.
JNO. A. BURNHAM, Boston, Mass.
H. H. HUNNEWELL, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
GEO. WHITNEY, Boston, Mass.
G. ST. L. ABBOTT, Boston, Mass.
W. HUNNEWELL, Boston, Mass.
W. HUNNEWELL, Boston, Mass.
F. H. DAMON, Boston, Mass.
CHAS. M. HEALD, Grand Rapids, Mich.
Terms expire July 8, 1896.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 12, 1878.

Number of stockholders at date of last election: 24.

Number of stockholders in Michigan at same date: 1.

Amount of full paid stock held in Michigan at same date: \$100.00.

Date of annual meeting of stockholders: Second Wednesday in July.

Fiscal year of company ends December 31.

General offices of the company are located at Grand Rapids, Mich.

## REMARKS.

This road is leased to the Saginaw Valley & St. Louis railroad Company during the corporate existence of both companies, the Saginaw Valley and St. Louis Railroad Company paying a dividend of ten per cent upon the stock of this company, as rental, two per cent of which is set aside to purchase the stock of the Saginaw & Grand Rapids Railroad Company for the use and benefit of the Saginaw Valley & St. Louis Railroad Company at an agreed price.

## ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association	\$1,000,000 00
Par value of shares	00
Number of shares issued 700 Amount paid in on common 700	emo 000 00
Total amount paid in as per books of the company.	
	•
Pald in per mile of road owned by company, 3.60 miles	
RECAPITULATION.	
Total debt liabilities	\$70,000 00 19,444 44
Amount of debt habilities per mile of road, 8.00 miles	
COST OF ROAD AND EQUIPMENT.	
Total cost for construction and equipment of road and branches b	uilt by company.
Total expended for construction	<b>870,000 00</b>
Average cost of construction per mile of road (not including sidings), 3.60 m Proportion of cost of construction for Michigan	19,444 44 All.
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: May, 1879.	
MAIN LINB.	
Length completed in Michigan, St. Louis to Alma	Miles. 3.60
Length completed in Michigan, St. Louis to Alma  Total length completed	8.60
Total length completed.	3.60 3.60
Total length completed	
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing	
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, } as	
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE,	3.60 3.60 3.60 3.60 3.60 3.60 3.60
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE,	3.60 3.60 3.60 3.60 3.60 3.60 3.60
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE,	3.60 3.60 3.60 3.60 3.60 3.60 3.60
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan	3.60 3.60 3.60 3.60 3.60 3.60 3.60
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE, Nathaniel Thayer, president, and James E. Howard, secretary, of the Sagroad Company, being duly sworn, depose and say that they have caused to be prepared by the proper officers and agents of this company, and havi same, declare them to be a true, full, and correct statement of the stock, therein contained of said company, on the thirty-first day of March, A. I knowledge and belief.  [L. S. OF E. E.] Signed,	3.60 3.60 3.60 3.60 3.60 3.60 3.60 3.60
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLK, Ss.  Nathaniel Thayer, president, and James B. Howard, secretary, of the Sag road Company, being duly sworn, depose and say that they have caused to be prepared by the proper officers and agents of this company, and havi same, declare them to be a true, full, and correct statement of the stock, therein contained of said company, on the thirty-first day of March, A. I knowledge and belief.  [L. S. OF R. R.] Signed, N. THA	3.60 3.60 3.60 3.60 3.60 3.60 3.60
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8% inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE, Nathaniel Thayer, president, and James E. Howard, secretary, of the Sag road Company, being duly sworn, depose and say that they have caused to be prepared by the proper officers and agents of this company, and havi same, declare them to be a true, full, and correct statement of the stock, therein contained of said company, on the thirty-first day of March, A. I knowledge and belief.  [L. S. OF E. E.] Signed, N. THA JAMES Subscribed and sworn to before me this 22d day of April, A. D. 1887.	2.60 2.60 2.60 2.60 2.60 2.60 2.60 2.60
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE, Nathaniel Thayer, president, and James E. Howard, secretary, of the Sagroad Company, being duly sworn, depose and say that they have caused to be prepared by the proper officers and agents of this company, and havisame, declare them to be a true, full, and correct statement of the stock, therein contained of said company, on the thirty-first day of March, A. I knowledge and belief.  [L. S. OF R. E.] Signed, N. THA JAMES Subscribed and sworn to before me this 22d day of April, A. D. 1897.	3.60 3.60 3.60 3.60 3.60 3.60 3.60 3.60
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE, Nathaniel Thayer, president, and James E. Howard, secretary, of the Sagroad Company, being duly sworn, depose and say that they have caused to be prepared by the proper officers and agents of this company, and havisame, declare them to be a true, full, and correct statement of the stock, therein contained of said company, on the thirty-first day of March, A. I knowledge and belief.  [L. S. OF R. R.] Signed, N. THA JAMES Subscribed and sworn to before me this 22d day of April, A. D. 1897.  [L. S.]	rinaw & Grand Rapids Rail- the foregoing statements to ng carefully examined the debt, and other matters as 1.1898, to the best of their YER, President. R. HOWARD, Secretary. y N. Thayer.
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8½ inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLE, Nathaniel Thayer, president, and James E. Howard, secretary, of the Sagroad Company, being duly sworn, depose and say that they have caused to be prepared by the proper officers and agents of this company, and havisame, declare them to be a true, full, and correct statement of the stock, therein contained of said company, on the thirty-first day of March, A. I knowledge and belief.  [L. S. OF R. E.] Signed, N. THA JAMES Subscribed and sworn to before me this 22d day of April, A. D. 1897.	dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids Rail- dinaw & Grand Rapids
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan	rinaw & Grand Rapids Rail- he foregoing statements to ng carefully examined the debt, and other matters as 0. 1896, to the best of their YER, President. E. HOWARD, Secretary. y N. Thayer. F. H. DAMON, Notary Public. ames E. Howard.
Total length of road belonging to this company Total length of road belonging to this company in Michigan Aggregate length of tracks belonging to this company, computed as sing Gauge of track, 4 feet 8% inches.  STATE OF MASSACHUSETTS, COUNTY OF SUFFOLK, Nathaniel Thayer, president, and James E. Howard, secretary, of the Sagroad Company, being duly sworn, depose and say that they have caused to be prepared by the proper officers and agents of this company, and havi same, declare them to be a true, full, and correct statement of the stock, therein contained of said company, on the thirty-first day of March, A. I knowledge and belief.  [L. S. OF E. E.] Signed, N. THA JAMES Subscribed and sworn to before me this 22d day of April, A. D. 1897.  [L. S.]  STATE OF MICHIGAN, COUNTY OF KENT, SS. Subscribed and sworn to before me this 13th day of April, A. D. 1897, as to Je [L. S.]	2.60 2.60 3.60 3.60 3.60 3.60 3.60 3.60 3.60 3

## ANNUAL REPORT

OF THE

## SAULT STE. MARIE BRIDGE COMPANY.

For the year ending December 81, 1896.

[Filed April 12, 1897.]

## OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, CALVIN S. BRICE, New York.
Secretary and Treasurer, GEO. H. CHURCH, 46 Wall St., New York.

### ORGANIZATION, ETC.

When chartered or articles of association filed: March 16, 1887.
Number of stockholders at date of last election: 12.
Number of stockholders in Michigan at same date: 1.
Date of annual meeting of stockholders: First Wednesday in June each year.
General offices of the company are located at 46 Wall St., New York.

### STOCKHOLDERS, DECEMBER 81, 1896.

Name.	Residence.	Amount held.
Calvin S. Brice	New York City	\$100 0
George T. Bliss		100 00
George H. Church	11 11 11	249,800 0
Stillman Gray	* "	100 0
Charles F. Halsted		499,500 0
Thomas Lowry	Minneapolis	100 0
Thomas Lowry James McMillen	Detroit	100 0
Thomas G. Shaughnessy	Montreal	100 0
L. F. Sullivan	New York City	249,800 0
Samuel Thomas	New Tork Orby	100 0
Sir Wm. C. Van Horne	Montreal	100 0
Walter Wateon	New York City	100 0
Total	1	\$1,000,000 0

## ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Character and date of issue.	Rate of interest.	When due.	Payable when.	Amount out- standing.
First mort. (\$1,000) bonds dated July 1, 1887.	5%	Jan. 1, & July 1.	July 1, 1987	\$900,000 00

#### RECAPITULATION.

Total indebtedness	
COST.	
Total cost of bridge and belongings	\$1,900,000 00
· TRACK.	
Length of single main track—feet.  Length of single main track—feet in Michigan.	6,421 1,900
Analysis of Earnings and Expenses.	
BARNINGS.	
From rentals or tolls: Under agreement with Canadian Pacific Bailway Company, Duluth, South Shore & Atlantic Railway and the Minceapolis, St. Paul and Sauit Ste. Marie Railway, the amount paid for use of bridge is to be the expenses of operating, and the interest and sinking fund on the bonded debt and no more.	
Total earnings on entire track Proportion of total earning on 1,900 feet of track in Michigan	\$63,085 80 18,667 20
EXPENSES.	
Operating.	
Salaries of officers and clerks } Management and maintenance }	\$11,217 08
Taxes Interest on first mortgage bonds Miscellaneous, sinking fund	674 19 45,000 00 5,500 00
Property account.	
For renewals and improvements.	694 08
Total	\$68,085 80
RECAPITULATION.	
Expenses for operating and taxes Expenses for property account	\$11,891 22 694 08
Total expenses for the year	\$12,585 30
Interest on bonds and sinking fund	50,500 00

## VERIFICATION.

STATE OF NEW YORK, } 88.

Calvin S. Brice, president, and George H. Church, secretary of the Sault Ste. Marie Bridge Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the said company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF E. E.] Signed, CALVIN S. BRICE,

GEO. H. CHURCH.

Subscribed and sworn to before me this 9th day of April, A. D. 1897.

CHARLES T. SMITH, Notary Public, Queens Co.

Certificate filed in New York Co.

## ANNUAL REPORT

#### OF THE

## SOUTH HAVEN & EASTERN RAILROAD COMPANY.

For the year ending December \$1, 1896.

[Filed February 4, 1897.]

## OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, R. B. DODSON, New York, N. Y.
Secretary, W. G. SNOW, New York, N. Y.
Auditor, EENEST F. EILERT, Paw Paw, Mich.
Treasurer, R. B. DODSON, New York, N. Y.
General Manager, M. V. MEREDITH, Paw Paw, Mich.
General Presight Agent, M. V. MEREDITH, Paw Paw, Mich.
Attorney, HOWARD J. MANSFIELD, New York, N. Y.

#### DIRECTORS.

CHAS. D. BACEUS, New York, N. Y. W. G. SNOW, New York, N. Y. R. B. DODSON, New York, N. Y. CHAS. H. CAMPBELL, Detroit, Mich. CHAS. J. MONEOE, South Haven, Mich.

Terms expire May 23, 1895, or when successors are elected by stockholders.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: April 21, 1876, T. & S. H. R. R.; May 23, 1894, S. H. & E. R. R.

Number of stockholders at date of last election: 8.

Number of stockholders in Michigan at same date: 2.

Date of annual meeting of stockholders: Third Thursday in May at South Haven, Mich.

Fiscal year of company ends: December 31.

General offices of the company are located at Paw Paw, Mich.

GENERAL EXHIBIT.	Debit	Credit.
Total earnings from operation	Deolt	\$27,786 08
Total expenses, including taxes	\$32,748 46	421,100 00
Net deficit	\$4,962 38	
Interest on unfunded debt	527 88	
Balance for the year	\$5,489 71	
Balance (profit and loss) last year.		5,514 29
Balance forward to next year.		24 58
ANALYSIS OF CAPITAL STOCK.		
Amount authorised by charter or articles of association		\$300,000 00
Number of shares issued2,185 Amount paid in on common	218,500 00	
Total amount paid in, as per books of the company		218,500 00
Paid in permile of road owned by company, 36.60 miles		5,969 95

## ANALYSIS OF DEBT ACCOUNTS.

## FUNDED DEBT.

Class, character and date of i	issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
1st mortgage bonds, April 1, 1895		•	April 1, 1925	New York City	\$216,000 00
*At 3 per cent for two years, the	n 4 per cei	at for thre	e years, then 5 pe	r cent until matur	ty.
	τ	in <b>fu</b> nd <b>ed</b>	DEBT.		
For what incurred.	Is tl	he same to	be funded or ho	w liquidated?	Amount.
For miscellaneous					\$7,090 00 1,577 00
Total unfunded debt					\$8,577 00
		RECAPITUI	ATTON.		
Total funded dabt					\$216,000 00- 8,577 00
Total debt liabilities					\$224,577 00
Amount of debt liabilities per mik Total amount of stock and debt Stock and debt per mile of road, 3	e of road, 6.60 miles	36 60 mile	)8		6,185 96 443,077 00 12,105 92
G	ENERAL	BALAN	E SHEETDr.		
Construction account Equipment account					\$489,558 19
Cash items:				\$1,533 8	9
Due from agents				642 2	9 - 2,175 78
Other assets: Debit balances from companies a	and indivi	dnale			•
Total					
_			CE SHEET.—Cr.		
Capital stock Funded debt				\$218,500 0 216,000 0	0
Unfunded debt:					\$431,500 00
Vouchers and accounts				\$7,000 0 1,577 0 24 5	0
Total					8,601 58 443,101 58
CC	OST OF E	ROAD AN	D EQUIPMENT.		
1	PURCHASE	D BY PRE	SENT COMPANY.		
When purchased by present compa Original cost to present company, Amount expended since purchase, Amount expended since purchase,	of road a	nd equipr	nentctionent	}	\$430,241 21 9,316 98

## ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.

ANALISIS OF EARNINGS.—ROAD ALL IN STATE OF MIC	HIGAN.	
PASSENGER EARNINGS.  Main line and branches: Local fares	e10 490 B4	
_	\$13,628 84	
	\$18,628 84	
Express and baggage	1,228 01 1,880 14	
Total passenger department earnings		\$16,781 99
Per train mile	\$7 271/2 457 16	
Main line and branches: Local traffic	10.572 35	
Total freight department earnings		10,572 85
Per train mile. Per mile of road.	90 1714 288 86	
Total transportation earnings, entire line		\$27,304 84
Transportation earnings per mile of road		\$21,002 <b>02</b>
as follows: From telegraph companiesFrom other sources		59 80
		421 94
Total		\$27,786 08
Total earnings from operation of road		\$27,786 08
Total earnings per mile of road	759 18 45%	27,786 08
Total income from all sources		\$27,786 08
Proportion of income for Michigan		27,786 08
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Bepairs of roadway Renewals of rails Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guards Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph Other expenses		96,242 65 2,484 87 8,000 01 97 93 44 05
Repairs and renewals of buildings and fixtures  Repairs and renewals of telegraph		289 84 24 50 41 37
Total.		\$12,174 22
MAINTENANCE OF EQUIPMENT.		
Repairs and renewals of locomotives. Repairs and renewals of passenger cars. Repairs and renewals of freight cars. Repairs and renewals of work cars Repairs and renewals of shop machinery and tools. Other expenses.		\$3,851 58 95 75 1,025 78 200 00 801 57 29 77
Total		\$5,504 85
CONDUCTING TRANSPORTATION.		<b>**</b> 004 49
Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train service Train supplies and expenses Station service Station supplies Loes and damage Advertising Other expenses Total		\$1,904 42 3,491 06 211 41 239 20 44 92 1,617 61 131 57 8,078 88 853 50 78 61 27 00 156 25 \$11,833 93

GENERAL EXPENSES.		
Salaries of general officers		\$1,941 05
Salaries of clerks and attendants General office expenses and supplies		675 00 56 68
Ingurenza		69 84 184 18
Stationery and printing (general offices) Other expenses		306 97 552 74
Taxes		
Total		\$3,735 96
RECAPITULATION OF EXPENSES.	Per cent of	•
	expenses.	
Maintenance of way and structures	87.46 16.64	\$12,174 22 5,504 35
Conducting transportation	84.50 11.40	11,888 98 8,785 96
General expenses, including taxes		
Total operating expenses and taxes	100.	\$32,748 46
Operating expenses and taxes per mile of road	8894 77	
Operating expenses and taxes per mile of road	.581/4	
[61.220] miles	·-	
Proportion of operating expenses and taxes for Michigan—Main line		\$32,748 46
Percentage of expenses to earnings	112	
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Lawton to South Haven, August, 1887.		
MAIN LINE.		
In Michigan, from Lawton to South Haven	Miles. 36.60	Miles.
		36.60
Total length completed		
Total length of road belonging to this company		36.60
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	1.20	
Aggregate length of tracks in Michigan belonging to this company, computed as	single track.	87.80
Gauge of track, 3 feet.		
Number of bridges and trestles in Michigan.		
• • • • • • • • • • • • • • • • • • • •	Number.	Aggregate length, feet.
Wooden bridges	8	
Total	8	750
	====	
Crossings.—Railroad and highway.		
What railroads cross your road at grade in this State and at what locality?  C. & W. M. R. B. at Hartford.  Michigan Central B. B. at South Haven.		
At what crossings are interlocking and derailing switches in operation? C. & W. M. B. B. crossing at Hartford.		
What pattern or patterns have you adopted? Scotch-block.		•
Are your frogs and guard rails blocked as required by Act 174, Session Laws 18 Yes.	887	
How are they treated?		
With wood. Stations.		
Number of stations on whole lines.	. <b></b>	9
Same in Michigan		9

## Employés.

Number of persons regularly employed on all roads operated by company, including officials Same in Michigan

Classify your employés as per following list:	Number.
Baggagemen	1
Brakemen.	ī
Conductors	2
Engineers Firemen	1 2 2 1
Laborers	24
Shopmen	3 1
YardmenOthers	1 3
Agents	6
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?  Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed.	48 25
Road bed and track.	_
Number of track sections in Michigan.	6
Average length of sections (miles).	4
Number of new ties put in whole line during the year.	18,629
Average length of sections in micrigan  Average length of sections (miles)  Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road	18,629
Average number or new ties per mue or road	308
New rails put in track: Steel (tons 105%), miles 1%.	
Total miles of track laid with new rails.	
	***************************************
Bridges and culverts.	
Timber culverts replaced during the year	50 fee t
ROLLING STOCK.	Present esti-
	Present esti- nated value. \$6,000 00
Number. n	nated value.
Number of locomotives of 10 to 20 tons weight, exclusive of tender	\$6,000 00 \$6,000 00
Number of locomotives of 10 to 20 tone weight, exclusive of tender	\$6,000 00 \$6,000 00 \$8,000 00 \$3,500 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender	\$6,000 00 \$6,000 00 \$8,000 00 \$3,500 00 200 00 1,500 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender.	\$6,000 00 \$6,000 00 \$8,000 00 \$3,500 00 200 00 1,500 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender.	\$6,000 00 \$6,000 00 \$6,000 00 \$3,500 00 200 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender.	\$6,000 00 \$6,000 00 \$8,000 00 \$3,500 00 200 00 1,500 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender.         Number.           Total.         3           Number of passenger cars—8-wheel, including official cars         7           Number of express and baggage cars         1           Number of box freight cars         11           Number of platform cars         13           Other cars as follows: Snow plow         1	\$6,000 00 \$6,000 00 \$6,000 00 \$3,500 00 200 00 1,500 00 1,400 00 300 00 \$12,900 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender.         Number.           Total.         3           Number of passenger cars—8-wheel, including official cars         7           Number of express and baggage cars         1           Number of box freight cars         11           Number of platform cars         13           Other cars as follows: Snow plow         1	\$6,000 00 \$6,000 00 \$3,500 00 \$3,500 00 1,500 00 1,400 00 300 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00 \$6,000 00 \$6,000 00 \$3,500 00 200 00 1,600 00 1,400 00 300 00 \$12,900 00 24 each?
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00 \$6,000 00 \$6,000 00 \$3,500 00 200 00 1,600 00 1,400 00 300 00 \$12,900 00 24 each?
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00 \$6,000 00 \$6,000 00 \$3,500 00 200 00 1,600 00 1,400 00 300 00 \$12,900 00 24 each?
Number of locomotives of 10 to 20 tons weight, exclusive of tender	\$6,000 00 \$6,000 00 \$6,000 00 \$3,500 00 200 00 1,600 00 1,400 00 300 00 \$12,900 00 24 each?
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00 \$6,000 00 \$6,000 00 \$3,500 00 200 00 1,600 00 1,400 00 300 00 \$12,900 00 24 each?
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00 \$6,000 00 \$3,500 00 \$3,500 00 1,500 00 1,400 00 \$12,900 00 24 each?
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00  \$6,000 00  \$3,500 00  \$3,500 00  1,500 00  1,400 00  \$12,900 00  24  each?  easion laws
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00 \$6,000 00 \$3,500 00 \$3,500 00 1,500 00 1,400 00 \$12,900 00 24 each?
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	### ##################################
Number of locomotives of 10 to 20 tons weight, exclusive of tender.  Total	\$6,000 00  \$6,000 00  \$3,500 00  \$3,500 00  1,500 00  1,400 00  \$12,900 00  24  each?  easion laws

## Passenger traffic.—In State of Michigan.

Number of local passengers carried, earning revenue	Numbers. 83,062	Miles.	Rate.
Total number of passengers carried, earning revenue	38,062		
Number of passengers carried one mile		14	<b>\$0 41</b>
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers			08
· Freight traffic.—In State of Michi	gan.		
Number of tons of local freight carried, earning revenue	Tons. 8,275	Miles.	Rate.
Total tons of freight carried, earning revenue	8,275		
Total freight mileage or tons carried one mile		182,050	
Average ton haul for all freight			\$1 28
Average receipts ton per mile for local freight			. 06 06

## FREIGHT TRAFFIC MOVEMENT.—IN STATE OF MICHIGAN.

## Company's material excluded.

O	Freight originating	Freight received from connecting	Total freight tonnage.	
Commodity.	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.	753		758	9.
Flour			91 69	1.70
Hay Fruit and vegetables	3,148		3,148	39.25
Potatoes	13		13	.15
Products of animals:	_			
Live stock				.10
Dressed meats	15		15 20	.17
Poultry, game and fish	20		20	.28
Products of mines:				
Anthracite coal		527	527	6.15
Bituminous coal)		157	157	2.00
Salt		157	191	2.00
Products of forest:			1	
Lumber		543	548	6.50
Logs	896	141	896 i	10.75 1. <b>8</b> 0
Shingles		141	141	1.00
Manufactures:				
Petroleum and other oils		62	62 104	.75 1.25
Sugar Castings and machinery	26	104 42	68	.85
Cement, brick and lime	184	62	196	2.85
Agricultural implements		85	45	.45
Wagons, carriages, tools, etc.	9	15	24	.25
Wines, liquors and beers		46	46	.50
Wines, liquors and beers Household goods and furniture	46	84	80	1.
Merchandise	818	951	1,269	15.
Total tonnage	5,556	2,719	8,275	100.

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co.; an agreed basis per cwt.; we take their freight at our depots.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 37 miles; belongs to South Haven & Eastern R. R. Co.

STATE OF MICHIGAN, Solution of VanBuren,

M. V. Meredith, general manager, of the South Haven & Eastern Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF B. B.]

Signed.

M. V. MEREDITH, Gen. Man. ERNEST F. EILERT, Auditor.

Subscribed and sworn to before me this 30th day of January, A. D. 1897.

[L. S.]

T. J. CAVANAUGH, Notary Public in and for Van Buren Co., Mich.

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## ANNUAL REPORT

#### OF THE

## ST. CLAIR TUNNEL COMPANY.

For the year ending December 31, 1896.

[Filed April 6, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, CHARLES M. HAYS, Montreal, Can. Vice President, JOHN BELL, Belleville, Can. Secretary and Treasurer, CHARLES PERCY, Montreal, Can. General Superintendent, F. H. McGUIGAN, Montreal, Can. Chief Engineer, JOSEPH HOBSON, Montreal, Can. Attorney. E. W. MEDDAUGH, Detroit, Mich.

#### DIRECTORS.

CHARLES M. HAYS, Montreal.
JOHN BELL, Beliville.
HON. A. VIDAL, Sarnia.
CHAS. MACKENZIE, Sarnia.
W. J. SPICER, Detroit.
E. W. MEDDAUGH, Detroit.
F. H. McGUIGAN, Montreal.
Terms expire September, 1897.

## STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 13, 1886 and November 24, 1886. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 2. Amount of full paid stock held in Michigan at same date: \$7,500 paid on \$15,000 stock held. Date of annual meeting of stockholders: Last Wednesday in September. Fiscal year of company ends June 30. General offices of the company are located at Montreal, Can.

### REMARKS.

This company derives it revenue from tolls levied upon rolling stock passing through the tunnel. The company haul trains through the tunnel with their own locomotives and train crews, and to that extent only perform the functions of a railway company. Hence many of the statistics asked for in this report, and which pertain to the operations of a railway company proper, cannot be given as no records are kept.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses, including taxes	\$91,083 42	\$233,158 50
Net income		\$142,070 08
Interest on funded debt	\$125,000 00	
Balance for the year		\$17,070 08
Balance (profit and loss) last year	\$29,792 07	
Balance forward to next year	\$12,721 99	

## ANALYSIS OF CAPITAL STOCK.

•	FUTDI	S OF CAL	TIAL SIOCK.		
Amount authorized by charter or a Par value of shares			7,000	\$100 00	00 00 50≰
Total amount paid in as per be					\$850,000 00
Paid in per mile of road owned by		-	~		•
•		.,			
•	ANALYSI	S OF DE	BT ACCOUNTS.		
		FUNDED I	DEBT.		
Class, character and date of issue.  First mortgage bonds		Rate of interest.	When due.	Where payab	Amount outstanding.
		. 5%	July 1, 1940	Montreal	\$2,500,000 00
	1	UNFUNDAD	DEBT.		
For what incurred.	Is t	he same to	be funded or he	ow liquidated.	Amount.
For surrent balances					\$12,721 99
Total funded debt					\$2,512,721 90
			CE SHEET.—Dr	•	
Construction accountEquipment account				\$2,740,7 69,9	72 18 88 51
Other investments: Land and land damages				118,6	14 81
Machinery and tools					54 80
Debit balances from companies as					20.220.1/U DI
Total	·				\$3,287,721 96
_					
•			CE SHEET.—CR	•	
Capital stock (paid up) Funded debt					00 00 00 00
				875,0	\$3,225,000 0
Unfunded debt: Vouchers and accounts					12,721 9
Total					\$3,237,721 9
c	OST OF	ROAD AN	D EQUIPMENT	<b>.</b> .	
Total cost for construct	ion and e	quipment	of road and bran	ches built by con	npany.
Total expended for construction a Average cost per mile of road (not Proportion of cost for Michigan	and equip	mentg sidings).			\$3,228,170 61 1,482,520 27 1,611,585 30

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

Property sold and credited.	\$182 12
analysis of Earnings.—In State of Michigan.	
PASSENGER BARNINGS.	
Tolls on passenger cars. Per mile of road.	\$21,818 00 19,838 22
FRBIGHT BARNINGS.	
Tolls on freight cars and new locomotives	\$94,758 25 84,229 55
Analysis of Earnings.—Entire Lines.	
PASSENGER BARNINGS.	
Tolls on passenger cars Per mile of road	\$43,696 00 19,838 22
FREIGHT BARNINGS.	
Tolls on freight cars and new locomotives	\$189,516 50 84,229 55
Total transportation earnings, entire line	\$283,152 50
Miscellaneous receipts from operating account, other than for transportion, as follows:  From rents not otherwise provided for	1 00,
Total	\$233,153 50
Proportion of taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan  Total income from all sources	116,576 75 103,623 77 283,158 50
Proportion of income for Michigan	116,576 75
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Maintenance of way and structures	\$5,488 84
MAINTENANCE OF EQUIPMENT.	
Motive power charges.	\$51,400 78
CONDUCTING TRANSPORTATION.	
Transportation charges	\$25,844 92
GENERAL EXPENSES.	
General charges	\$3,769 50 5,084 48
Total	\$8,858 98
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures	\$5,488 84
Maintenance of equipment Conducting transportation General expenses, including taxes	51,400 73 25,344 92 8,858 98
Total operating expenses and taxes	\$91,088 42

Operating expenses and taxes per mile of road	\$40,481 58 45,541 71
Percentage of expenses to earnings . 39.06 Net earnings per mile of road	63,142 25
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini: From Sarnia to Port Huron, for freight traffic, October 24, 1891; for passenger traffic, Dec	ember 7, 1891.
MAIN LINE.	
In Michigan     1.12%       In Canada     1.12%	
Total length of road belonging to this company	2.25
Gauge of track, 4 feet 8½ inches.	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials Same in Michigan.	55
Classify your employée as per following list:  Brakemen	Number 10
Conductors Engineers	. 5
Firemen	
LaborersOthers	5 28
Total	
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you?	1.01
Road Bed and Track.	
	_
Number of track sections in Michigan.  Average lengths of sections (miles).	1.121/4
Average number of men in each section gang	. 3 148
Average lengths of sections (miles)  Average number of men in each section gang  Number of new ties put in whole line during the year  Average number of new ties per mile of road  New rails put in track:	. 68
Steel [tons 13%] miles	086
DOLL INO GROOM	
ROLLING STOCK.	Present esti-
	mated value. \$14,000 00
Number of conductors' way cars.	\$800 00
Number of locomotives equipped with power brakes.	
What patterns of power brakes have you in use, and number of locomotives and cars with Westinghouse air brakes.	each?
CITY OF MONTREAL, SS.	

COUNTY OF HOCHELAGA, | 88.

We, Charles M. Hays, president, and Chas. Percy, secretary and treasurer, of the St. Clair Tunnel Company, being duly sworn, depose and say that we have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of our knowledge and belief.

[L. S. OF R. R.]

Signed,

CHAS. M. HAYS, President.

CHAS. PERCY, Sec. and Treas.

Subscribed and sworn to before me this 1st day of April, A. D., 1897.

MENDELL U. ANDERSON, U.S. Consul General at Montreal.

### ANNUAL REPORT

### OF THE

# ST. JOSEPH VALLEY RAILWAY COMPANY.

For the year ending December 81, 1896.

[Filed June 18, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. A. PATTERSON, Jr., Chicago, Ill. Vice President, D. H. PATTERSON, Chicago, Ill. Secretary, F. McOMBER, Berrien Springs, Mich. Treasurer, F. L. REEVES, Berrien Springs, Mich. General Manager, A. PATTERSON, Jr., Chicago, Ill. Chief Engineer, E. C. HURD, Benton Harbor, Mich. Attorney, M. L. HOWELL, Cassopolis, Mich.

### DIRECTORS.

- A. A. PATTERSON, JR., Chicago, Ill.
- D. H. PATTERSON, Chicago, Ill.
- F. McOmber, Berrien Springs, Mich.
- F. L. REEVES, Newark, N. J.
- J. A. PATTERSON, Albany, N. Y.
- F. B. BENTON, Chicago. Ill.

Terms expire when new board is elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: August 1, 1889. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 2. Amount of full paid stock held in Michigan at same date: \$400.00. Date of annual meeting of stockholders: First Tuesday in April. Fiscal year of company ends December 31. General offices of the company are located at Benton Harbor, Mich.

# REMARKS.

The road is now in control of a construction company, for the purpose of rebuilding and extending, and was not in operation during the year 1896—the term for which this report is called.

Five miles of heavy new grade and track have been completed from Benton Harbor south, and grading is now under way to complete the road to Berrien Springs.

## ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association \$100.00  Par value of shares \$100.00  Number of shares issued \$3,000	\$800,000 00
Number of shares issued	
Total amount paid in as per books of the company	800,000 00
Paid in per mile of road owned by company	30,000 00

# ANALYSIS OF DEBT ACCOUNTS.

# FUNDED DEBT.

Class, character and date	of issue. Rate of interest.		Where payable.	Amount out- standing.
First mortgage bonds, Aug , 18	89 5%	Aug. 1, 1919	New York	<b>\$50,000 00</b>
	UMFUNDE	D DEBT.		
For what incurred.	Is the same to b	e funded or how l	iquidated.	Amount.
For construction				\$62,546 49
	RECAPITU	LATION.		
Total funded debt Total unfunded debt	· · · · · · · · · · · · · · · · · · ·			_ \$50,000 00 _ 62,546 49
Total debt liabilities				. \$112,546 49
Amount of debt liabilities per	mile of road, 10 miles	and 6 miles addit	ional graded	. 11,254 64
Total amount of stock and deb Stock and debt per mile of roa	t d, 10 miles and 6 miles	s additional grade	d	412,546 49 41,254 64
Cost of road franchises, etc			15,989 4	2 - \$365,989 42
Cash	s and individuals:			799 71
Suspense account				45,757 86
Total				. \$412,546 49
				. 412,010 10
	GENERAL BALAN	CE SHEET.—CR.		
			#800,000 0 50,000 0	0
Capital stock Funded debt Unfunded debt: Coupons Notes payable Vouchers and accounts			\$17,500 0 18,464 79	8850,000 00
Unfunded debt: Coupons Notes payable Vouchers and accounts.			\$17,500 0 13,464 7 31,581 7	0 0 - \$850,000 00
Unfunded debt: Coupons Notes payable Vouchers and accounts.			\$17,500 0 18,464 7 31,581 7	\$850,000 00 0 \$850,000 00 0 62,546 49
Unfunded debt: Coupons Notes payable Vouchers and accounts.		ND EQUIPMENT	\$17,500 0 18,464 7 31,581 7	\$850,000 00 0 \$850,000 00 0 62,546 49
Unfunded debt: Coupons Notes payable Vouchers and accounts.	COST OF ROAD Al  Purchased by pr 389. ny, of road and equip. see, account of constru	ND EQUIPMENT	\$17,500 0 113,464 70 31,581 70	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Unfunded debt: Coupons Notes payable Vouchers and accounts  Total  When purchased: August 1, 10 Original cost to present compa Amount expended since purch	COST OF ROAD Al  Purchased by pr 389. ny, of road and equip; use, account of constructed, account of miscell	ND EQUIPMENT resent company. ment_ action	\$17,500 0 13,464 7 31,581 7	\$350,000 00 \$2,546 49 \$412,546 49 \$412,546 49 \$412,546 49

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini. From Buchanan, Mich., to Berrien Springs, Mich., August 1, 1889.

From Duchanan, mich., to Berrien Springs, mich, August 1, 1889.	•
MAIN LINE.	Miles.
In Michigan, from Buchanan to Berrien Springs	
Total length completed  Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated  Aggregate length of tracks in Michigan belonging to this company, computed as single track.	
Gauge of track, 4 feet 8% inches.	
Number of bridges and trestles in Michigan.	
	Aggregate length, feet, 1,529.8
WOODER tresties	
Number of crossings of highways at grade in this State	10
Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 1883?	
Yes. How are they treated? Plank blocking.	
Stations.	
Number of stations on whole lines	. 4
Employés.	
Number of persons regularly employed on all roads operated by company, including	
officials	16 16
Classify your employée as per following list:	Number.
Brakemen Conductors Rogineers Firemen Laborers Yardmen	1 1 1 6
REPAIRS AND RENEWALS.	
Fencing in Michigan.	•
How many miles of fencing have you	20
Road bed and track.	
Number of track sections in Michigan Average lengths of sections (miles) Average number of men in each section gang	1 10 6
ROLLING STOCK.	<b>.</b>
Number.	Present esti- mated value.
Number of locomotives of 20 to 30 tons weight, exclusive of tender	
Number of platform cars	
Number of locomotives equipped with power brakes.	1

# ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express company?

(When in operation)—American Express Co., 15c per 100 lbs. \$25.00 per month for messenger. Take freights at depot.

STATE OF MICHIGAN, COUNTY OF BERRIEN, 38.

A. A. Patterson, Jr., president, and D. H. Patterson, vice president, of the St. Joseph Valley Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

A. A. PATTERSON, JR , President.

D. H. PATTERSON, Vice President.

Subscribed and sworn to before me this 17th day of June, A. D. 1897.

SAMUEL H. KELLEY,

Notary Public, Berrien Co., Mich.

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### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini. From Buchanan, Mich., to Berrien Springs, Mich., August 1, 1889.

From Buchanan, Mich., to Berrien Springs, Mich, August 1, 1889.	•
MAIN LINE.	
In Michigan, from Buchanan to Berrien Springs	Milee. 10
- · ·	
Total length completed	10 10
Aggregate length in Michigan of sidings, spure, and other tracks not above enumerated Aggregate length of tracks in Michigan belonging to this company, computed as single	.50
tracktracks in michigan belonging to this company, computed as single	10. <b>50</b>
Gauge of track, 4 feet 81/2 inches.	
Number of bridges and trestles in Michigan.	
Number	Aggregate length, feet.
	1,529.8
Number of crossings of highways at grade in this State.	10
Are your frogs and guard rails blocked as required by Act No. 174, Session Laws of 18837	
Yes.	
How are they treated? Plank blocking.	
Stations.	
Number of stations on whole lines	- 4
Same in Michigan	4
Employés.	
Number of persons regularly employed on all roads operated by company, including officials	16
officials Same in Michigan	16
Classify your employés as per following list:	Number.
Brakemen	1
Engineers	1
Firemen Laborers	6
Yardmen	1
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you	. 20
TOW WELL Whose or routing we to for	
Road bed and track.	
Number of track sections in Michigan.	1 10
Average lengths of sections (miles)	10
• • • • • • • • • • • • • • • • • • •	
DATATIVA AMOOR	
	Present esti-
***************************************	mated value.
Number of platform cars	1
Number of locomotives equipped with power brakes.	1
• • • • • • • • • • • • • • • • • • •	

# ADDITIONAL QUESTIONS.

# Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express company?

(When in operation)—American Express Co., 15c per 100 lbs. \$25.00 per month for messenger. Take freights at depot.

STATE OF MICHIGAN, COUNTY OF BERRIEN, }88.

A. A. Patterson, Jr., president, and D. H. Patterson, vice president, of the St. Joseph Valley Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF B. R.]

Signed,

A. A. PATTERSON, JR, President. D. H. PATTERSON, Vice President.

Subscribed and sworn to before me this 17th day of June, A. D. 1897.

[L. S.]

SAMUEL H. KELLEY.

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Notary Public, Berrien Co., Mich.

### ANNUAL REPORT

### OF THE

# SUPERIOR TERMINAL RAILWAY COMPANY.

For the year ending December 81, 1896.

[Filed April 19, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, G. W. R. MATTESON, Providence, R. I. Vice President, C. H. HALL, Ishpeming, Mich. Secretary, W. B. BOSSON, Boston, Mass. Treasurer, W. D. REES, Cleveland, O.

### DIRECTORS.

G. W. R. MATTESON, Providence, R. I. W. D. REES, Cleveland, Ohio. C. H. Moss, Ishpeming, Mich. C. H. HALL, Ishpeming, Mich. W. H. Johnston, Ishpeming, Mich. Terms expire February 8, 1898.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 27, 1863.

Number of stockholders at date of last election: 10.

Number of stockholder in Michigan at same date: 10.

Amount of full paid stock held in Michigan at same date: None full paid in Michigan.

Date of annual meeting of stockholders: Second Tuesday in February.

Fiscal year of company ends: None yet established.

General offices of the company are located at Ishpeming, Mich.

### REMARKS.

This road is an incorporation of the mine tracks of Lake Superior Iron Co, and is now operated under an agreement with the D., S. S. & A. R'y Co. by which the tracks are included in the mileage of the D., S. S. & A. R'y Co., and its earnings are taxable against that company.

### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association  Par value of shares	\$65,000 00
Total amount paid in, as per books of the company	61,200 00

### DESCRIPTION OF ROAD.

This road was built from time to time at various periods covering a term of about 30 years, by the Lake Superior Iron Company, to facilitate shipments of its product.

Its tracks are terminal tracks at the mines of the Lake Superior Company, and, as stated above, is now operated under an agreement with the D., S. S. & Atlantic R'y Co. Gauge of track, 4 feet 8½ inches.

STATE OF RHODE ISLAND, COUNTY OF PROVIDENCE, } ss.

Geo. W. R. Matteson, president, and Wm. B. Bosson, secretary of the Superior Terminal Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the stock, debt, and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

G. W. R. MATTESON President

[L. S. OF R. R.]

G. W. R. MATTESON, President. WM. B. BOSSON, Secretary.

Subscribed and sworn to before me this 13th day of April, A. D. 1897.

FLETCHER S. MASON, Notary Public.

# ANNUAL REPORT

OF THE

# TOLEDO, SAGINAW & MUSKEGON RAILWAY COMPANY,

For the year ending December 31, 1896.

[Filed March 27, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President and General Manager, CHARLES M. HAYS, Montreal, Province of Quebec. Secretary and Treasurer, JAMES H. MUIR, Detroit, Mich. General Superintendent, F. H. McGUIGAN, Montreal, Province of Quebec. Superintendent, A. B. ATWATER, Detroit, Mich. Superintendent of Motive Power, F. W. MORSE, Montreal, Province of Quebec. Superintendent of Car Department, W. McWOOD, Montreal, Province of Quebec. Master Mechanic, HERBERT ROBERTS, Fort Gratiot, Michigan. Master Car Builder, THOMAS SUTHERLAND, Fort Gratiot, Michigan. Chief Engineer, JOSEPH HOBSON, Montreal, Province of Quebec. Assistant Engineer, GEORGE MASSON, Detroit, Michigan. General Traffic Manager, GEORGE B. REEVE, Montreal, Province of Quebec. General Passenger and Ticket Agent, W. E. DAVIS, Montreal, Province of Quebec. Assistant Passenger and Ticket Agent, E. H. HUGHES, Chicago, Illinois. General Freight Agent, JOHN W. LOUD, Montreal, Province of Quebec, First Assistant Freight Agent, DAVID BROWN, Chicago, Illinois. Solicitor, E. W. MEDDAUGH, Detroit, Michigan.

### DIRECTORS.

CHARLES M. HAYS, Montreal, Province of Quebec.
A. B. ATWATER, Detroit, Michigan.
C. JESSE CHURCH, Greenville, Michigan.
LYMAN G. MASON, Muskegon, Michigan.
E. W. MEDDAUGH, Detroit, Michigan.
E. MIDDLETON, Greenville, Michigan.
GRORGE B. REEVE, Montreal, Province of Quebec.
Terms expire 16th April, 1897, or when successors are elected.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered, or articles of association filed: 25th January, 1896.
Number of stockholders at date of last election: 9.
Number of stockholders in Michigan at same date: 5.
Amount of full paid stock held in Michigan at same date: \$500.
Date of annual meeting of stockholders: The second day after the second Wednesday in April.
Fiscal year of company ends December 31.
General offices of the company are located at Detroit, Mish.

	GE	NERAL E	XHIBIT.			
Total servings from operation					Debit.	Credit. \$94,746 91
Total earnings from operation Total expenses, including taxes					\$182,446 88	452,120 51
Net deficit					\$87,699 97	•
Interest on funded debt					82,430 00	)
Balance for the year					\$120,149 97	1
Balance, loss from 81st December,	1895			•••••	256,666 18	
Items not included in above as fol Advanced by the Grand Trunk I cago & Grand Trunk Railway Balance forwarded to next year	Railway ( Company	under trai	nc agreement			
•					\$876,816 15	\$376,816 15
•	ANALYS	IS OF CA	PITAL STOCK.	•		
Amount authorized by charter or	articles o	f associati	on			\$2,800,000 00
Amount authorised by charter or Par value of shares Number of shares issued			16,000	\$100 00		
Total amount paid in, as per b		_	-			
Paid in per mile of road owned by	company	, 96 miles.				16,666 67
	ANAT.VS	IS OF DR	BT ACCOUNTS.			
	ANAL 10					
		FUNDED 1	DABT.			
Class, character and date of i	issue.	Rate of interest.	When due.	Where	payable.	Amount outstanding.
First mortgage bonds, dated July	<b>2, 1888</b>	5%	July 1, 1918	New Y	ork City	\$1,649,000 00
		<b>Unfunde</b> d	DEST.			
For what incurred.	Is t	he same to	be funded or ho	w liquids	ated?	Amount.
For miscellaneous						\$691,008 54
		RECAPITUL			•	<del></del>
Total funded debt						\$1,649,000 00 691,008 54
Total debt liabilities			· 			\$2,840,008 54
Amount of debt liabilities per mile	e of road	96 miles				24,875 04
Total amount of stock and debt Stock and debt per mile of road [	96 milesj.					8,940,003 54 41,041 70
(	ENERA	L BALANC	E SHEET.—Dr.			
Construction and equipment acco						\$8,249,365 50
Cash items: Cash Due from agents					\$329 00 2,718 91	
Other assets:						8,042 91
Debit balances from companies Grand Trunk Railway Company as security for advances under t Chicago & Grand Trunk Railway	rattic agr	eement, pe	r contra		\$22,028 47 219,591 88 103,618 90	· }
Loss or income account		-	_			823,210 83 842,856 88
Total						
10681	••••••					. as, 990,003 54

# GENERAL BALANCE SHEET.-CR.

GENERAL DADAMON SHEET. CA		
Capital stock Funded debt	1,600,000 00 1,649,000 00	
Unfunded debt: Interest unpaid Vouchers and accounts	\$286,204 93 81,588 28	\$8,249,000 00
Other liabilities: Grand Trunk Railway Company, of Canada, for advances under traffic agreement Chicago & Grand Trunk Railway Company, for advances under traffic agreement	219,591 88 108,618 95	691,008 54
Total		\$8,940,008 54
COST OF BOAD AND EQUIPMENT.	•	
PURCHASED BY PRESENT COMPANY.		
When purchased: August 1, 1888.  Original cost to present company, of road and equipment.  Amount expended since purchase, account of construction.  Amount expended since purchase, account of equipment.  Total cost to date of report.  Average cost per mile of road (not including sidings) % miles  Proportion of cost for Michigan.		\$3,160,000 00 86,695 50 2,670 00 3,249,365 50 33,347 56 3,249,365 50
Analysis of Earnings.—Boad all in State of Mic	CHIGAN.	
Main line and branches: Local fares	\$17,406 79 950 44	
Total passenger fares	\$18,359 28	
Express and baggage. Mails. Other sources.	902 00 7,274 01 87 80	
Total passenger department earnings		<b>826</b> ,572 54
Per train mile Per mile of road	\$0 86 227 12	
Main line and branches:		
Local traffic Through traffic	\$49,580 88 11,968 12	
Total traffic.	\$61,549 00	
Total freight department earnings		61,549 00
Per train mile	\$0 84 526 06	
Total transportation earnings, entire line		\$88,121 54
Transportation earnings per mile of road	\$758 18 60	
Miscellaneous receipts from operating account, other than for transportation, as follows:  From rents of tracks, yards and terminals	6,625 87	
Total	\$6,625 87	
Total earnings from operation of road		94,746 91
Total earnings per mile of road Total earnings per train mile Total taxable earnings per mile of road in Michigan Total toxable from all sources		809 80 64 809 80
Total income from all sources		94,746 91

# ANALYSIS OF EXPENSES.

MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$19,875 34 750 00
Renewals of tails Renewals of ties	11.374 20
Renewals of ties Repairs and renewals of bridges and culverts Repairs and renewals of fences, road crossings, signs and cattle guarda Repairs and renewals of buildings and fixtures	11,374 20 10,974 06 3,774 50 2,227 73
Mepairs and renewals of fences, road crossings, signs and cattle guards	3,774 50 2,227 73
Repairs and renewals of docks and wharves Stationery and printing	135 80
Stationery and printing	82 24
Total	\$48,693 87
maintenance of equipment. Superintendence	\$843 04
Superintendence	9,187 81
Repairs and renewals of locomotives	1.802 75
Repairs and renewals of work cars	4,555 67 189 60
Repairs and renewals of shop machinery and tools	435 26
Repairs and renewals of work cars Repairs and renewals of shop machinery and tools. Stationery and printing. Other expenses	78 40 151 06
Total	\$16,693 09
CONDUCTING TRANSPORTATION.	
Superintendence	\$2,118 78 10,968 95
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives Oil, tallow and waste for locomotives Train service	10,082 73
Water supply for locomotives	667 67
Train service	527 02 7,153 50
Train service Train supplies and expenses Switchmen, flagmen and watchmen	1,549 15 2,822 70
Switchmen, flagmen and watchmen	2,822 70 816 58
Giation comics	9,494 45
Station service Station supplies Car mileage—Balance Loss and damage Injuries to persons Advertising Outside agencies	1,203 39 770 50
Loss and damage	193 53
Injuries to persons	68 87
Advertising	547 35 821 81
Commissions Rents for tracks, yards and terminals. Bent of buildings and other property	112 89
Rente for tracks, yards and terminals.	10,575 25 837 83
Stationery and printing.	1,094 70
Total	\$62,427 10
GENERAL EXPENSES.	
Salaries of general officers	\$314 74
Salaries of cierks and attendants	884 85 107 95
	547 35
Law expenses.	765 75 89 22
Law expenses Stationery and printing (general offices) Taxes.	1,972 98
Total	\$4,632 82
RECAPITULATION OF EXPENSES.	_
Per cent o expenses.	<u>(</u>
Maintenance of way and structures 36.76	\$48,693 87
Maintenance of equipment 12.60	16,693 09 62,427 10
Conducting transportation 47.13 General expenses, including taxes 3.51	4,632 82
Total operating expenses and taxes 100.00	\$132,446 88
Operating expenses and taxes per mile of road.	\$1,182 03 90
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue (147.243 miles)  Proportion of operating expenses and taxes for Michigan, main line	182,446 88
Total proportion of expenses for Michigan	<b>132,446</b> 88
Percentage of expenses to earnings	
Net loss per mile of road	

# DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: From Ashley, Mich., to Muskegon, Mich., August 1, 1888.

MAIN LINE. Miles.	Miles.
In Michigan, from Ashley to Muskegon96	•
Total length completed	96
Total length of road belonging to this company  Total length of road belonging to this company in Michigan  Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	96
Aggregate length in Michigan of sidings, spurs, and other tracks not above enumerated	10.07
Aggregate length of tracks in Michigan belonging to this company, computed as single track	106.07
Gauge of track, 4 feet 8½ inches.	
Number of bridges and trestles in Michigan.	
Number.	Aggregate length, feet.
Wooden bridges. 4 Wooden trestles. 70	875 6,887
Total	7,212
Crossings.—Railro 1d and highway.	
What railroads cross your road at grade in this State, and at what locality? Detroit, Lansing & Northern R. B. at Sheridan and Greenville. Grand Rapids & Indiana R. B. at Cedar Springs and Muskegon. Chicago & West Michigan B'y at Sparts, Fruitport Junction and Muskegon.	
At what crossings are interlooking and derailing switches in operation? At Detroit, Lansing & Northern R. R. crossings at Sheridan and Greenville. At Grand Rapids & Indiana R. E. crossing at Cedar Springs. At Chicago & West Michigan Ry crossings at Sparts, Fruitport Junction and Muskegon	
What pattern or patterns have you adopted for use? Wharton's.	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen	125 8
flagmen Number of crossings of highways over or under railroad: (over, 2; under, 2) Number of highway bridges, 18 feet above track	2
Have safety guards been erected at overhead obstructions? Yes.	
Are your frogs and guard rails blocked as required by act 174, seesion laws 1883? Yes.	
How are they treated? Plank blocking.	
Stations.	
Number of stations on whole lines	26 26
Danielanda	
Employés.	
Number of persons regularly employed on all roads operated by company, including officials  Same in Michigan	128 128
Classify your employés as per following list: Baggagemen	Number. 2
Brakemen Conductors	7 4
Engineers	4
Fireman Laborers	5 51
Laborers Shopmen Yardmen Others	6
Others	1 43

# REPAIRS AND RENEWALS.

# Fencing in Michigan.

L'oncoing on macrosychia		
How many miles of fencing have you?		192
Road bed and track.		
Number of track sections in Michigan  Average lengths of sections (miles)		12 8
Average number of men in each section gang		81,821
Number of new ties put in track and sidings in Michigan Average number of new ties per mile of road and sidings.		31,821 295
Bridges and culverts.		
Timber culverts replaced during the year—		11
With timber—number	•••••	
ROLLING STOCK.	_	
		resent esti- ated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	6	\$28,000 00
Total	6	\$28,000 00
Number of passenger cars—8-wheel, including official cars	2	<b>\$7,000 00</b>
Number of express and baggage cars	4 80	8,600 00 31,670 00
Number of platform cars	52 2	11,570 00 2,800 00
Total	140	\$61,640 00
Number of locomotives equipped with power brakes  Number of passenger-train cars equipped with power brakes		6
What patterns of power brakes have you in use, and number of locomotives an 6 locomotives with Westinghouse air brakes; 6 cars with Westinghouse air br	d cars with e	ach?
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by act No. 88, session laws of 1887? Yes.	act No. 147, s	ession laws
With at mattern an matterna have man adented for man	•	

What pattern or patterns have you adopted for use? Gould and Janney.

How are your passenger cars heated? Baker heater (hot water).

# MILEAGE, TRAFFIC, ETC.

# Train Mileage.

Tain Mucaye.			
		All i	n Michigan.
Miles run by passenger trains during the year			56,434 176 90,683
Total mileage of trains earning revenue			147,243
Passenger traffic.—Road all in State of	Michigan.		
	Numbers.	Miles.	Rate.
Number of through passengers carried earning revenue  Number of local passengers carried earning revenue	849 81,231		
Total number of passengers carried earning revenue	31,580		
Number of passengers carried one mile	726,387	23.0	<b>9</b> 0 58,14
Average receipts per mile for through passengers.			02.33
Average receipts per mile for local passengers.  Average receipts per passenger per mile for all passengers			02.54 02.58

# Freight traffic.—Road all in State of Michigan.

Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 11,511 68,598	Miles.	Rate.
Total tens of freight carried, earning revenue	80,109		
Total mileage of through freight		1,321, <b>554</b> 2,812,158	
Total freight mileage or tone carried one mile		4,183,712	
Average ton haul for through freight. Average ton haul for local freight.		115.0 41.0	
Average ton haul for all freight		51.6	
Average amount received for each ton haul Average receipts ton per mile, for through freight Average receipts ton per mile, for local freight Average receipts ton per mile, for all freight			\$0 76.83 00.91 01.76 01.49

# FREIGHT TRAFFIC MOVEMENT .- ROAD ALL IN STATE OF MICHIGAN.

# Company's material excluded.

Commodity.	Freight originating	Freight re- ceived from connecting	Total freight tonnage.		
· ·	on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.	
Products of agriculture:					
Grain	10,485	217	10,702	13.36	
Flour		304	2,392	2.99	
Other mill products		10	124	. 15	
Hay	1,835	20	1,855	2.32	
Tobacco Fruit and vegetables.		55	55	.07	
Fruit and vegetables	15,498	244	15,742	19.65	
Potatoes	3,845		3,845	4.80	
Products of animals:					
Live stock	2,703	31	2,784	3.41	
Dressed meats	1 11	2	13	.02	
Other packing house products	129	l 80	159	.20	
Poultry, game and fish	1 15	. 3	18	.02	
Wool	55	46	101	.18	
Wool Hides and leather	26	2	28	.03	
Products of mines:					
Anthracite coal	107	1.107	1.214	1.52	
Bituminous coal.		1,318	1.318	1.65	
Coke		70	70	.09	
CokeStone, sand, and other like articles	6,027	111	6,138	7.66	
Salt		328	328	.41	
Products of forest:					
Lumber	8,925	1.359	10,284	12.84	
Logs	5,972	31	6,003	7.50	
W4			1		
Manufactures: Petroleum and other oils.		223	223	.28	
Sugar	25	718	743	.93	
Iron, pig and bloom		1	74	.09	
Iron and steel rails	· · · · · · · · · · · · · · · · · · ·	41	41	.05	
Other castings and machinery	99	686	785	.91	
Cement, brick and lime		1.178	2,204	2.75	
Agricultural implements	12	190	202	.25	
Wagons, carriages, tools, etc.		72	72	.09	
Wines, liquors and beers.	591	91	682	.85	
Household goods and furniture	1,723	139	1,862	2.82	
Merchandise	1,007	1,729	2,736	8.41	
Miscellaneous: Other commodities not mentioned above	4,489	9 000	7,412	9.25	
Other commodities not mentioned \$00ve	2,109	2,923	1,*12	₹.29	
Total tonnage	66,886	13,223	80,109	100	

### ADDITIONAL QUESTIONS.

### Express Companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

The National Express Company has exclusive right on passenger trains for carrying light freight, money, etc., taking freight to and from depots at the following rates: On through merchandise—first-class rates; on local merchandise, 1½ first-class rates, and on perishable goods, 11-10 first-class rates.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 96 miles owned by Western Union Telegraph Company.

### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid.
American Refrigerator Transit Co. Armour Car Lines. Arms' Palace Horse Car Co.	St. Louis, Mo. Chicago, Ill. Chicago, Ill.	20
Burton Stock Car Co	Boston, Mass. St. Albans, Vt.	96 3
Chicago Refrigerator Car Co. International Fruit Dealers' Despatch I. E. B. Furniture Line Live Poultry Transportation Co.	Chicago, Ill. Chicago, Ill. Atlanta, Ga. Chicago, Ill.	70
Merchants' Despatch Transportation Co	St. Albans, Vt	240 5 108 7
Total		\$541 1

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

May 25, 1896, W. H. Morehouse, trespasser, Greenville. Walking on track; no inquest. November 21, Claud Shank, brakeman, Bannister. Fell from train; no inquest.

# TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

	Killed.			Injured.		
Causes of accident.	Pas- sengers.	Employés.	Others.	Pas- sengers.	Employés.	Others.
Falling from trains		1	i			
Total		1	1			

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year.
Number of casualties purely accidental
Number resulting from lack of caution, carelessness or misconduct
Trespassers and tramps killed or injured

# CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

•	Killed.	Injured.	Total.
Brakemen	1		1
Total	1		1

STATE OF MICHIGAN, }88.

Almon B. Atwater, superintendent, and James H. Muir, secretary and treasurer, of the Toledo, Saginaw & Muskegon Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

A. B. ATWATER. JAMES H. MUIR,

Subscribed and sworn to before me this 26th day of March, A. D. 1897. [L. S.]

LAWRENCE F. LANG,

Notary Public, County of Wayne, State of Michigan.

# ANNUAL REPORT

OF THE

# WISCONSIN & MICHIGAN RAILWAY COMPANY,

For the year ending December 81, 1896.

[Filed April 10, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, S. M. FISCHER, Chicago, Ill.
Vice President, JNO. BAGLEY, Chicago, Ill.
Secretary, J. N. FAITHORNE, Chicago, Ill.
Auditor, O. A. KOSS, Chicago, Ill.
Treasurer, S. M. FISCHER, Chicago, Ill.
General Manager, J. M. FAITHORNE, Chicago, Ill.
Superintendent, A. H. CROCKER, Peshtigo, Wis.
Chief Engineer, A. M. KINSMAN, Menominee, Mich.
Superintendent of Telegraph, S. M. HARRISON, Peshtigo, Wis.
Traffic Manager, J. J. COLEMAN, Chicago, Ill.

# DIRECTORS.

S. M. FISCHER, Chicago, Ill.
J. N. FAITHORNE, Chicago, Ill.
J. C. AMES, Chicago, Ill.
J.O. BAGLEY, Chicago, Ill.
J. J. COLEMAN, Chicago, Ill.
Terms expire, July 18, 1898.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: October 26, 1893.
Number of stockholders at date of last election: 51.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$12,000.00.
Date of annual meeting of stockholders: Third Tuesday in January.
Fiscal year of company ends December 31.
General offices of the company are located at Chicago, Ill.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation Total expenses including taxes	\$86,147 28	\$109,021 06
Net income		22,873 83
Interest on funded debt	\$49,025 00	
Balance for the year	\$26,151 17 8,358 18	
Balance forward to next year	\$34,509 85	

# ANALYSIS OF CAPITAL STOCK.

Par value of shares		ion	<b>\$1</b> 00 0	. <b>\$951,50</b> 0 (
Number of shares issuedAmount paid in on commonTotal amount paid in, as per books of			8,010	951,500 ( 951,500 (
Paid in per mile of road owned by cor				
raid in per mile of load owned by cor	npany			
ANA	Lysis of De	EBT ACCOUNTS.		
	FUNDED	DEBT.		
Class, character and date of issue	Rate of interest.		Where payable.	Amount outstanding
First mortgage	5%	Jan. 1, 1945	Atlantic Trust Co., N. Y	\$951,000 (
	UNFUNDE	D DEBT.		
For what incurred.	Is the same t	o be funded or ho	w liquidated.	Amount
For equipment				\$180,170 3 94,350 0 72,522 1
Total unfunded debt				\$347,042
	RECAPITU	TATION.		
Total funded debt				\$951,000 ( 347,042 t
Total debt liabilities				\$1,298,042
Amount of debt liabilities per mile of Total amount of stock and debt Btock and debt per mile of road, 63.55	road, 63.55 mil	les		20,425 5 2,249,542 5 85,397 9
GEN)	ERAL BALAN	CE SHEET.—Da	•	
Construction account Equipment account			235.060 0	) ) · \$2,137,060 (
Cash items: Cash Due from agents			\$1,119 2	2
			·	- 5,730 (

GENERAL BALANCE SHEET.—Cr.		
Capital stock	\$951,500 00 951,000 00	1,902,500 00
Unfunded debt: Interest unpaid Notes payable Vouchers and accounts	\$59,850 00 214,670 38 25,602 14	1,902,300 00
Other liabilities Profit and loss or income accounts	46,920 04 34,509 85	312,533 21

# COST OF ROAD AND EQUIPMENT.

# PURCHASED BY PRESENT COMPANY.

When purchased: January 1, 1895. Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment		\$1,620,000 00 282,000 00 122,560 00
Total cost to date of report		\$2,024,560 00
Average cost per mile of road (not including sidings) 63.55 miles  Proportion of cost for Michigan		31,826 28 979,077 22
CHARGES AND CREDITS TO PROPERTY DURING THE	YEAR.	
Main line: Extensions and new sidings		\$240,000 00 122,560 00
Total		\$362,560 00
Branches: Extensions and new sidings		42,000 00
Total		\$42,000 00
Total charges to property account as above.		404,560 00
Net addition to property account		\$404,560 00
		<del></del>
ANALYSIS OF EARNINGS.—IN STATE OF MICHIGAS	i.	
PASSENGEE MARNINGS.  Main line and branches:		
Local fares Through fares	\$3,418 <b>6</b> 7 421 35	
Total passenger fares	\$3,835 02	
Express and baggage	56 25 688 50	
Total passenger department earnings		\$4,579 77
Per train mile	\$0 23 143 13	<b>V2,000</b> 17
FREIGHT BARNINGS.		•
Main line and branches: Local traffic Through traffic	17,533 74 8,636 02	
Total traffic		28,169 76
Other sources, freight department.	<b>\$</b> 3,363 <b>6</b> 9	
Total freight department earnings		29,533 45
Per train mile Per mile of road	\$1 31 922 92	
ANALYSIS OF EARNINGS.—ENTIRE LINES.		
Main line and branches:  PASSENGER EARNINGS.		
Local fares. Through fares.	\$10,614 32 1,311 88	
Total passenger fares		\$11,926 20
Express and baggage	\$152 19 1,398 60	
Total passenger department earnings		13,476 99
Per train mile Per mile of road	\$0 28 186 <b>99</b>	

FREIGHT EARNINGS.		
Main line and branches:  Local traffic	\$52,750 28 35,166 85	
Total traffic		\$87,917 13
Other sources, freight department	\$7,626 94	
Total freight department earnings		95,544 07
Per train mile Per mile of road	\$1 87 1,325 62	
Total transportation earnings, entire line Transportation earnings per mile of road. Transportation earnings per train mile	1,512 61 1 09	\$109,021 06
Total earnings from operation of road		\$34,113 22
Total earnings per mile of road	1,066 05 80	
Total earnings per train mile. Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	34,113 22 1,066 05	
Total income from all sources		\$109,021 06
Proportion of income for Michigan		34,113 22
ANALYSIS OF EXPENSES.		
MAINTENANCE OF WAY AND STRUCTURES.		
Repairs of roadway		\$15,409 54 61 58 78 56 1 96
Repairs and renewals of buildings and fixtures Repairs and renewals of telegraph		525 06 522 56
Total		\$16,594 25
MAINTENANCE OF EQUIPMENT.		
		\$1,302 57
Repairs and renewals of locomotives		\$1,302 57 3,576 01 584 55
Repairs and renewals of freight cars		3,862 61
Superintendence. Repairs and renewals of locomotives Repairs and renewals of passenger cars. Repairs and renewals of freight cars Repairs and renewals of shop machinery and tools Other expenses		3,862 61 947 78 12 43
Total		\$10,285,90
		,
CONDUCTING TRANSPORTATION.	•	
Superintendence		9917 88
Superintendence.  Engine and roundhouse men.		\$917 88 7,231 57
Superintendence		\$917 88 7,231 57
Superintendence  Engine and roundhouse men Fuel for locomotives Water supply for locomotives.  Oil, tallow and waste for locomotives Other supplies for locomotives		\$917 88 7,231 57
Superintendence  Engine and roundhouse men Fuel for locomotives Water supply for locomotives.  Oil, tallow and waste for locomotives Other supplies for locomotives		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40
Superintendence  Engine and roundhouse men Fuel for locomotives Water supply for locomotives.  Oil, tallow and waste for locomotives  Other supplies for locomotives.		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oll, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses. Telegraph expenses. Station service.		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 40
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oll, tallow and waste for locomotives Other supplies for locomotives. Train service. Train supplies and expenses. Telegraph expenses. Station service.		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 04 3,917 86
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives Other supplies for locomotives. Train service Train supplies and expenses Telegraph expenses.		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 04 3,917 86
Superintendence Engine and roundhouse men Fuel for locomotives water supply for locomotives. Oll, tallow and waste for locomotives Other supplies for locomotives. Train service Train supplies and expenses Telegraph expenses Station service Station service Station supplies Switching charges—balance Loss and damage		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 04 3,917 86
Superintendence Engine and roundhouse men Fuel for locomotives water supply for locomotives. Oll, tallow and waste for locomotives Other supplies for locomotives. Train service Train supplies and expenses Telegraph expenses Station service Station service Station supplies Switching charges—balance Loss and damage		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 04 3,917 86
Superintendence Engine and roundhouse men Fuel for locomotives water supply for locomotives. Oll, tallow and waste for locomotives Other supplies for locomotives. Train service Train supplies and expenses Telegraph expenses Station service Station service Station supplies Switching charges—balance Loss and damage		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 04 3,917 86
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives  Other supplies for locomotives.  Train service.  Train supplies and expenses Telegraph expenses. Station service Station supplies Switching charges—balance Loss and damage. Loss and damage. Lost operating wrecks Advertising. Outside agencies Commissions		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 3,417 60 3,417 60 3,417 60 3,417 60 3,417 60 5,555 99 1,832 00 5,175 59 5,175 332 50
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives  Other supplies for locomotives.  Train service.  Train supplies and expenses Telegraph expenses. Station service Station supplies Switching charges—balance Loss and damage. Loss and damage. Lost operating wrecks Advertising. Outside agencies Commissions		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,405 04 3,917 86 3,168 66 3,168 66 555 99 1,332 00 46 02 51 75 32 50
Superintendence Engine and roundhouse men Fuel for locomotives water supply for locomotives.  Oll, tallow and waste for locomotives Other supplies for locomotives.  Train service Train supplies and expenses Telegraph expenses Station service Station service Station service Loss and damage Injuries to persons Clearing wrecks Advertising Outside agencies Commissions Rent of braicks yards and terminals Rent of buildings and other property		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,405 04 3,168 66 3,168 66 555 99 1,832 00 46 20 46 7,371 52 911 65
Superintendence Engine and roundhouse men Fuel for locomotives Water supply for locomotives. Oil, tallow and waste for locomotives  Other supplies for locomotives.  Train service.  Train supplies and expenses Telegraph expenses. Station service Station supplies Switching charges—balance Loss and damage. Loss and damage. Lost operating wrecks Advertising. Outside agencies Commissions		\$917 88 7,231 57 9,055 75 1,274 48 191 59 91 84 6,345 40 314 75 1,406 04 3,917 86 3,168 86 555 99 1,832 00 46 02 51 52 50 162 43 7,371 52

# GENERAL EXPENSES.

CENTURE DEL MICEO	
Salaries of general officers. Salaries of clerks and attendants General office expenses and supplies Insurance Law expenses. Stationery and printing (general offices) Other expenses.  Miscellaneous  Taxes	\$4,945 35 3,237 88 718 40 395 54 587 60 1,007 49 1,302 37 750 04 160 60
Total	\$13,105 27
RECAPITULATION OF EXPENSES. Per cent of expenses.	
Maintenance of way and structures       19         Maintenance of equipment       12         Conducting transportation       54         General expenses, including taxes       15	\$16,594 25 10,285 90 46,161 81 13,105 27
Total operating expenses and taxes. 100	\$86,147 23
Operating expenses and taxes per mile of road	
PROPORTION OF OPERATING EXPENSES AND TAXES FOR MICHIGAN.  Main line	\$26,705 64
Total proportion of expenses for Michigan.	\$26,705 64
Percentage of expenses to earnings	\$317 50 23
DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Peshtigo, Wis., to Faithorn Junction, Mich., January 1, 1895. From Fisher, Mich., to Ingalls, January 1st, 1895. From Peshtigo Harbor, Wis., to Peshtigo, Wis., September 1, 1896.	
MAIN LINE.	
Miles. In Michigan, from State Line to Faithorn Junction	Miles.
Total length completed	57.10
BEANCHES.  Ingalls, from Fisher to Ingalls, Mich	
Ingalls, from Fisher to Ingalls, Mich.         5.00           Hammond, from Hammond to end.         1.45	
Total length of branches owned by company	6.45
Total length of branches owned by company in Michigan	
Total length of road belonging to this company	63.55
Total length of road belonging to this company in Michigan 30.73  Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated 3.55	
Aggregate length of tracks in Michigan belonging to this company, computed as single track	34.28
Gauge of track, 4 feet 8% inches.	

# Proprietary or leased roads operated by this company.

Total miles operated by the company 72.075 31.956  If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 1894.  Give date road commenced to be operated: Dec. 31, 1895.  Give date road commenced to be operated: January 1, 1895.  Where built from and to: Peshtigo, Wis., to Faithorn Junction, Mich.  Give exact number of miles. 54.1.  Number of bridges and trestles in Michigan.  Number.  Iron bridges, ¼ in Michigan 1 385  Wooden trestles 6 303  Total 7 688  Crossings.—Ratitroad and highway.
If north of parallel 44 of latitude: Yes.  Give date road commenced to be built: April 1894.  Give date road completed: Dec. 31, 1895.  Give date road commenced to be operated: January 1, 1895.  Where built from and to: Peshtigo, Wis., to Faithorn Junction, Mich.  Give exact number of miles. 54.1.  Number of bridges and trestles in Michigan.  Number. length, feet. Iron bridges, ¼ in Michigan 1 385 Wooden trestles 6 303  Total 7 688
Yes.  Give date road commenced to be built: April 1894.  Give date road completed: Dec. 31, 1895.  Give date road commenced to be operated: January 1, 1895.  Where built from and to: Peshtigo, Wis., to Faithorn Junction, Mich.  Give exact number of miles. 54.1.  Number of bridges and trestles in Michigan.  Number.  Aggregate length, feet.  Iron bridges, ¼ in Michigan
April 1894.  Give date road completed: Dec. 31, 1895.  Give date road commenced to be operated: January 1, 1895.  Where built from and to: Peshtigo, Wis., to Faithorn Junction, Mich.  Give exact number of miles. 54.1.  Number of bridges and trestles in Michigan.  Number. length, feet.  Iron bridges, ¼ in Michigan  Wooden trestles  Total.  Crossings.—Railroad and highway.
Dec. 31, 1895.  Give date road commenced to be operated:  January 1, 1895.  Where built from and to: Peshtigo, Wis., to Faithorn Junction, Mich.  Give exact number of miles.  34.1.  Number of bridges and trestles in Michigan.  Number. length, feet.  1 385 Wooden trestles 1 303 Total.  Crossings.—Railroad and highway.
January 1, 1895.  Where built from and to: Peshtigo, Wis., to Faithorn Junction, Mich.  Give exact number of miles. 54.1.  Number of bridges and trestles in Michigan. Number. length, feet.  Iron bridges, ¼ in Michigan Wooden trestles  Total  Crossings.—Railroad and highway.
Peshtigo, Wis., to Faithorn Junction, Mich.  Give exact number of miles.  54.1.  Number of bridges and trestles in Michigan.  Number.  Iron bridges, ¼ in Michigan  Wooden trestles  Total  Crossings.—Railroad and highway.
54.1.  Number of bridges and trestles in Michigan.  Number. length, feet.  Iron bridges, ¼ in Michigan 1 385 Wooden trestles 5 303  Total 7 688  Crossings.—Railroad and highway.
Tron bridges, % in Michigan 1 385 Wooden trestles 6 303  Total 7 688  Crossings.—Railroad and highway.
Total 7 688  Crossings.—Railroad and highway.
Total 7 688  Crossings.—Railroad and highway.
Number of crossings of highways at grade in this State
Are your frogs and guard rails blocked as required by act 174, session laws 1883? Yes.
How are they treated? Blocked with plank.
Stations.
Number of stations on whole lines.
Same in Michigan
$Employ\'es$ .
Number of persons regularly employed on all roads operated by company, including officials 95
Same in Michigan 25
Classify your employés as per following list: Number.  Baggagemen 1
Brakemen 8
Engineers 5
Firemen 5 Laborers 44
8hopmen 21
REPAIRS AND RENEWALS.
Fencing in Michigan.
Give the number of miles required to complete sence both sides of your track in Michigan.
Road bed and track.
Number of track sections in Michigan 5 Average lengths of sections, miles 6 Average number of men in each section gang 7 Number of new ties put in whole line during the year 8,065 Number of new ties put in track in Michigan 972 Average number of new ties per mile of road 41

# ROLLING STOCK.

MODBING DIOCH.	_	
		resent esti-
		ated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	8 2	\$15,000 00
Number of locomotives of 20 to 30 tons weight, exclusive of tender	2	8,000 00
Number of locomotives of 10 to 20 tons weight, exclusive of tender	Ž	8,000 00
Total	7	<b>\$31,000 00</b>
10001		201,000 00
Number of passenger cars—12-wheel, including official cars	2	\$6,000 00
Number of box freight cars	469	199,825 00
Number of platform cars	110	88,500 00
Number of conductors' way cars	2	1,500 00
Other cars	4	1,200 00
Total	587	\$277,525 00
	===	
Number of locomotives equipped with power brakes		K
Number of passenger train cars equipped with power brakes		5 2
Number of freight cars equipped with power brakes		10
Number of Height care equipped with power brakes		10
·		
What patterns of power brakes have you in use, and number of locomotives as	id cars with	
each?		16
Are your freight cars being equipped with automatic couplers as required by	act No. 147, s	ession laws
of 1885, as amended by act No. 88, session laws of 1887?		
Yes.		
What pattern or patterns have you adopted for use?		
Chicago and Ludlow.		
Onicego and Dudiow.		
How are your negenger care heated?		

How are your passenger cars heated? Coal stoves.

# MILEAGE, TRAFFIC, ETC.

Train mileage.		Entire lines. I	n Michigan.
Miles run by passenger trains during the year		48,290	21,407 22,659
Total mileage of trains earning revenue		99,404	44,066
Passenger traffic,—Entire lines.			
<del>-</del>	Numbers.	Miles.	Rate.
Number of through passengers carried, earning revenue Number of local passengers carried, earning revenue	1,402 20,228		\$0 02.78 03.11
Total number of passengers carried, earning revenue	21,630	)	
Number of passengers carried one mile  Average distance carried.  Average amount received from each passenger  Average receipts per mile for through passengers  Average receipts per mile for local passengers  Average receipts per mile for local passengers  Average receipts per passenger per mile for all passengers  Retimated cost of carrying each passenger one mile		18	55 02.73 03.11 03.06 01.89
Passenger traffic.—In State of Mich	igan.		
Number of through passengers carried, earning revenue  Number of local passengers carried, earning revenue	1,037 13,089		\$0 02.78 02.80
Total number of passengers carried, earning revenue	14,126	3	
Number of passengers carried one mile	·	13	27 02.78 02.30 02.09 01.89

Freight traffic.—Entire lines. Tons.	Miles.	Rate
Number of tons of through freight carried, earning revenue		
Total tons of freight carried earning revenue		
Total mileage of through freight.	1,786,440 1,386,918	
Total freight mileage or tons carried one mile	8,178,358	
Average ton haul for through freight	33.10 21.03	
Average ton haul for all freight	26.58	
Average amount received for each ton haul Average receipts ton per mile for through freight Average ton receipts per mile, for local freight Average receipts ton per mile for all freight.		\$0 74 0.19 0.88 0.28
Freight traffic.—In State of Michigan.		
Number of tons of through freight carried, earning revenue		
Total tons of freight carried, earning revenue		
Total mileage of through freight	368,971 389,085	
Total freight mileage or tons carried one mile	758,056	
Average ton haul for through freight	15.81 9.41	
Average ton haul for all freight	11.58	
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile for local freight  Average receipts ton per mile, for all freight		\$0 40 0.28 0.42 0.34

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freigh	nt tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture : Grain Flour Other mill products	31	8,990 803 962 230	9,027 834 1,052 410	7.08 .65 .82 .32
Products of animals:  Live stock	22	1 80	18 80 17 22 58	.14
Products of mines:  Bituminous coal  Stone, sand, and other like articles	9,884	5,264	5,264 9,884	4.10 7.70
Products of forest: Lumber Logs Shingles	9,890 45,100 29,300	8,297 45 437	18,187 45,145 29,787	10.27 35.16 23.16
Manufactures: Sugar Iron, pig and bloom Iron and steel rails Other castings and machinery Cement, brick and lime Wines, liquors and beers Household goods and furniture	138 112 82	1,104 231 170 80 739	1,104 256 308 192 821 89	.86 .19 .24 .15 .64
Merchandise	1	826	7.883	6.14
Miscellaneous: Other commodities not mentioned above	.,	1,007	3,021	2.36
Total tonnage	104,081	24,378	128,409	100

### FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.

### Company's material excluded.

C	Freight originating	Freight received from connecting	Total freigl	ht tonnage.
Commodity.	on this road. Whole tons.		Whole tons.	Per cent.
Products of agriculture: Grain Flour Other mill products Hay		8,202 603 837 312	8,295 603 837 396	9.30 .67 .93
Products of animals: Live stock Dressed meats Other packing house products	17	15 72 29	82 72 29	} .15
Products of mines: Stone, sand, and other like articles	150		150	.17
Products of forest: Lumber Logs Shingles	5,974 33,900 22,630	5,987 156 329	11,961 34,056 22,960	13.41 88.18 25:74
Manufactures: Sugar Iron, pig and bloom Castings and machinery Cement, brick and lime	1	1,106 210 356 318	1,108 240 356 360	1.24 .27 .40 .42
Merchandise	4,770	1,046	5,816	6.52
Miscellaneous: Other commodities not mentioned above	1,926		1,926	2.16
Total tonnage	69,617	19,578	89,195	100

# ADDITIONAL QUESTIONS.

### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

American Express Co. Local merchandise, 1½ times first class rates; through merchandise, 1 1-10 times first class rates; beer, etc., second class rates. Take freights at depots.

# Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 72 miles. Western Union Telegraph Co.

# STATE OF ILLINOIS, COUNTY OF COOK, }88.

8. M. Fischer, president and treasurer, of the Wisconsin & Michigan Railway Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.] Signed,

Subscribed and sworn to before me this 8th day of July, A. D. 1897.

ROBERTA M. SHAW, Notary Public.

S. M. FISCHER.

[L. S.]

### ANNUAL REPORT

OF THE

# WABASH RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 22, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, O. D. ASHLEY, New York, N. Y. Vice Presidents:

EDGAR T. WELLES, New York, N. Y.
J. RAMSEY, JR., St. Louis, Mo.
Secretary, J. C. OTTESON, New York, N. Y.
Auditor, D. B. HOWARD, St. Louis, Mo.
Treasurer, F. L. O'LEARY, St. Louis, Mo.
General Manager, J. RAMSEY, JR., St. Louis, Mo.
General Superintendent, H. L. MAGEE, St. Louis, Mo.
Division Superintendents:

E. A. GOULD, Peru, Ind.
J. L. GOODRICH, Chicago, Ill.
W. A. GARRETT, Moberly, Mo.
Chief Engineer, W. S. LINCOLN, St. Louis, Mo.
Superintendent of Telegraph, G. C. KINSMAN, Decatur, Ill.
General Passenger Agent, C. S. CRANE, St. Louis, Mo.
General Freight Agent, S. B. KNIGHT, St. Louis, Mo.
Attorney, WELLS H. BLODGETT, St. Louis, Mo.

## DIRECTORS.

O. D. ASHLEY, New York, N. Y.
GEO. J. GOULD, New York, N. Y.
EDGAR T. WELLES, New York, N. Y.
HENRY K. MCHARG, New York, N. Y.
C. J. LAWRENCE, New York, N. Y.
P. B. WYCKOFF, New York, N. Y.
S. C. REYNOLDS, Toledo, Ohio.
EDWIN GOULD, New York, N. Y.
THOS. H. HUBBARD, New York, N. Y.
JOHN T. TEREY, New York, N. Y.
RUSSELL SAGE, New York, N. Y.
C. C. MACRAE, London, Eng.
FRANCIS PAYY, London, Eng.
Terms expire second Tuesday in September, 1897.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: July 31, 1889. Date of annual meeting of stockholders: Second Tuesday in September. Fiscal year of company ends: June 30.
General offices of the company are located at St. Louis, Mo.

	NERAL E		Debit.	Credit.
Total earnings from operation			\$9,571,434 8	.\$12,158,129 <b>9</b> 5
Net income		<del></del>		\$2,586,691 15
Interest on funded debt			\$2,694,545 0 \$5,000 0 57,700 8	9
Balance, deficit			\$200,554 2	- 2,787,245 <b>39</b>
Balance for the year, deficit			\$200,554 2	4
Balance forward to next year, transferre	ed to profi	t and loss		\$200,554 24
ANALYSI	S OF CAL	PITAL STOCK.		
Amount authorized by charter or articles of Par value of shares	associati	on\$10	00 00 \$28,000,000 0 24,000,000 0	.\$52,000,000 00 0
Total amount paid in as per books of the	o compan	7		52,000 000 00
Paid in per mile of road owned by company	, 1,594 mil	88		32,622 00
Class, character and date of issue.	Rate of interest.	BT ACCOUNTS.  DEBT.  When due.	Where payable.	Amount outstanding.
1st mortg. bonds, Wabash R. R. Co. 2d mortg. bonds, Wabash R. R. Co. Debenture bonds. 1st mortg. bonds, St. Charles Bridge. 2d mortg. bonds, St. Charles Bridge. 1st mortg. bonds, Boone Co. & Boonville R. R. 1st mortg. bonds, Brunswick & Chillioothe	6% 7%	1939 1939 1939 1908 1908	New York	II.
B. B. 1st mortg. bonds, St. Louis C. B. & O. R. R.	6≰ 6≴	1903	New York New York New York	304,500 00 577,000 00
1st mortg. bonds, Detroit & Chicago Ext	5≴	1908 1941	New York	3,500,000 00
Total funded debt				\$81,534,000 00
* If earned.				
Total funded debt	RECAPITUI			<b>681 584 000 00</b>
Total debt liabilities				\$81,534,000 00
Amount of debt liabilities per mile of road Total amount of stock and debt Stock and debt per mile of road	(1,695.2 m	1106)		48,000 00 133,534,000 00 80,722 00

# GENERAL BALANCE SHEET.-DR.

GENERAL BALANCE SERBI.—DE.		
Cost of road, equipment and appurtenances		\$188,483,500 00
Other investments:		
Cash items:	\$486,757 83 18,992 94 88,854 80	805,822 22 589,604 57
Other assets: Materials and supplies	\$625,756 92 825,429 13	1,451,186 05
The purchasing committee. Chicago & Western Indiana sinking fund. Profit and loss.		185,827 42 871,265 44 990,672 15
Total		\$187,827,877 85
GENERAL BALANCE SHEET.—Cr.		ess 000 000 00
Capital stock Funded debt Unfunded debt: Interest unpaid Notes payable. Vouchers and accounts. Other liabilities.		81,584,000 00 /4  4  8  8
Profit and loss or income accounts.		_ 0'050'TON OT
Total		
COST OF ROAD AND EQUIPMENT.		
PURCHASED BY PRESENT COMPANY.		
Original cost to present company, of road and equipment. Amount expended since purchase, account of construction Montpelier & Chic Total cost to date of report.  Average cost per mile of road (not including sidings) 1,695.2 miles.  Proportion of cost for Michigan, 75.9.	ago B. B.	\$129,938,500 00 3,500,000 00 138,433,500 00 90,772 38 6,188,697 08
ANALYSIS OF EARNINGS.—IN STATE OF MICHIG	AN.	
Main line and branches: Total passenger fares Express and baggage Mails Other sources  Total passenger department earnings		_
Per mile of road		
r or mino of logic	\$1,275	io
Main line and branches: Total traffic Other sources, freight department.	284,288 10,866	02 89
Total freight department earnings		245,154 91
Per mile of road	\$3,045	40

# ANALYSIS OF EARNINGS.—ENTIRE LINES.

PASSENGER BARNINGS.	
Main line and branches:       \$2,986,035 78         Total passenger fares       \$200,108 12         Express and baggage       300,108 12         Malls       507,027 90         Other sources       78,253 45	
Total passenger department earnings	\$3,871,425 26
Per train mile       \$0.80.90         Per mile of road       1,999 50	
FREIGHT BARNINGS.	
Main line and branches:         57,878,077 70           Other sources, freight department         213,805 43	•
Total freight department earnings	
Per train mile       \$1 41.83         Per mile of road       4,179 26	
Total transportation earnings, entire line	\$11,968,308 39
From other sources	
Total	12,158,125 95
Distribution of miscellaneous earnings between main line and leased or proprietary roads  Detroit Elevator Commission.	Proportion or Michigan.
Markalan atom form annual and a sala	A11 000 000 00
Total earnings from operation of road.         \$6,178.76           Total earnings per mile of road.         \$14.08           Total earnings per train mile.         1 14.08           Proportion of taxable earnings for Michigan         347,606.67           Total taxable earnings per mile of road in Michigan         4,320.58	\$11,963,306 89
Total earnings from operation of road.       \$6,178 76         Total earnings per mile of road.       1 14.08         Total earnings per train mile.       1 14.08         Proportion of taxable earnings for Michigan.       347,606 67         Total taxable earnings per mile of road in Michigan.       4,320 58         Total income from all sources       347,606 67	
	\$11,963,308 89
Total income from all sources	\$11,963,308 89
Total income from all sources	\$11,963,308 89
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway. Renewals of rails. Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves Repairs and renewals of buildings and fixtures. Repairs and renewals of buildings and fixtures. Repairs and renewals of buildings and fixtures. Repairs and renewals of telegraph Stationery and printing Other expenses	\$853,150 19 194,624 36 257,810 41 187,344 75 47,200 27 160,1671 38 17,105 30 1,129 76 98,025 67
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway  Renewals of rails  Renewals of trails  Repairs and renewals of bridges and culverts  Repairs and renewals of tences, road crossings, signs and cattle guards  Repairs and renewals of buildings and fixtures	\$853,150 19 194,624 36 257,810 41 187,344 75 47,200 27 160,1671 38 17,105 30 1,129 76 98,025 67
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STRUCTURES.  Repairs of roadway. Renewals of rails. Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves Repairs and renewals of buildings and fixtures. Repairs and renewals of buildings and fixtures. Repairs and renewals of buildings and fixtures. Repairs and renewals of telegraph Stationery and printing Other expenses	\$853,150 19 194,624 36 257,810 41 187,344 75 47,200 27 160,1671 38 17,105 30 1,129 76 98,025 67
Total income from all sources  Proportion of income for Michigan  ANALYSIS OF EXPENSES.  MAINTENANCE OF WAY AND STEUCTURES.  Repairs of roadway. Renewals of rails Renewals of ties. Repairs and renewals of bridges and culverts. Repairs and renewals of fences, road crossings, signs and cattle guards. Repairs and renewals of buildings and fixtures. Repairs and renewals of docks and wharves Repairs and renewals of telegraph Stationery and printing Other expenses.	\$853,150 19 194,624 26 254,810 41 187,344 75 47,280 27 160,188 82 671 33 17,129 76 98,025 67 \$1,817,290 35  \$104,640 84 502,931 72 887,887 86 496,088 12 12,716 71 75,981 07 4,886 47 65,396 17

# CONDUCTING TRANSPORTATION.

Superintendence		\$118.580.40
Engine and roundhouse men		\$113,580 40 861,755 29
Fuel for locomotives		549.615.25
Water supply for locomotives. Oil, tallow and waste for locomotives.	••••••	92,000 01 85.788 88
Other supplies for locomotives		8,227 10
Train service.		62,605 67 35,766 68 8,227 10 600,886 36
Train service.  Train supplies and expenses.  Switchmen, flagmen and watchmen.  Telegraph expenses Station service.		54,443 25 422,255 28 169,253 44
Telegraph expenses		169,253 44
Station supplies Car mileage—balance		41,194 51 856 752 04
Hire of equipment  Loss and damage		356,752 04 9,748 66 75,690 58 83,732 15
Loss and damage		75,690 58
Injuries to persons		51,058 75
Outside agencies.		200,007 91
Commissions Rents for tracks, yards and terminals.		42,149 17 421,599 08
Rent of buildings and other property		17.718 02
Stationery and printing Other expenses		17,718 02 58,330 91
Other expenses		69,893 48
Total		\$5,361,845 40
GENERAL EXPENSES.		•
Salaries of general officers		\$44,084 89
Salaries of clerks and attendants General office expenses and supplies.		38.894 71
Insurance		1,585 44 80,254 78
Law expenses		K1.240 84
Law expenses Stationery and printing (general offices)		14,577 68
Other expenses		14,577 68 87,998 72 524,238 60
Total		\$742,825 66
RECAPITULATION OF EXPENSES.		
MECALITOLATION OF EXTENDED.	Per cent of	
	expenses.	et 917 000 0F
Maintenance of way and structures	expenses. 18.99	\$1,817,290 35 1,649,978 89
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation	expenses. 18.99 17.24 56.01	1.649.978 89
Maintenance of way and structures	expenses. 18.99 17.24	\$1,817,290 35 1,649,978 89 5,361,345 40 742,825 66
Maintenance of way and structures	18.99 17.24 56.01 7.76	1,649,978 89 5,361,345 40 742,825 66
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation	18.99 17.24 56.01 7.76	1.649.978 89
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation  General expenses, including taxes.  Total operating expenses and taxes.	18.99 17.24 56.01 7.76	1,649,978 89 5,361,345 40 742,825 66 \$9,571,434 80
Maintenance of way and structures	18.99 17.24 56.01 7.76	1,649,978 89 5,361,345 40 742,825 66 \$9,571,434 80
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.	18.99 17.24 56.01 7.76	1,649,973 89 5,361,345 40 742,825 66 89,571,434 80 4,943 41 91.28
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.	expensee. 18.99 17.24 56.01 7.76	1,649,973 89 5,361,345 40 742,825 66 89,571,434 80 4,943 41 91.28
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.	expensee. 18.99 17.24 56.01 7.76	1,649,973 89 5,361,345 40 742,825 66 89,571,434 80 4,943 41 91.28
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.	expensee. 18.99 17.24 56.01 7.76	1,649,973 39 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.	expensee. 18.99 17.24 56.01 7.76	1,649,973 39 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line Percentage of expenses to earnings, entire line.  80.01 Net earnings per mile of road, entire line. Net earnings per train mile, entire line.	expensee. 18.99 17.24 56.01 7.76	1,649,973 39 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation.  General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.	expensee. 18.99 17.24 56.01 7.76	1,649,973 39 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes.  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  Net earnings per mile of road, entire line.  DESCRIPTION OF ROAD.	expensee. 18.99 17.24 56.01 7.76	1,649,973 39 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:	expensee. 18.99 17.24 56.01 7.76	1,649,973 39 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line Percentage of expenses to earnings, entire line.  Net earnings per mile of road, entire line.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Detroit to Butler, 1881.	expensee. 18.99 17.24 56.01 7.76	1,649,973 39 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment.  Conducting transportation General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line Percentage of expenses to earnings, entire line Net earnings per mile of road, entire line  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:	expensee. 18.99 17.24 56.01 7.76	1,649,973 80 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line	expenses. 18.99 17.24 56.01 7.78 100  \$1,235.34 22.81	1,649,973 35 5,361,345 40 742,825 66 99,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures	expenses. 18.99 17.24 56.01 7.78 100  \$1,235.34 22.81	1,649,973 85 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures	expenses. 18.99 17.24 56.01 7.76 100  \$1,235 34 22.81	1,649,973 35 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures	expenses. 18.99 17.24 56.01 7.78 100  \$1,235.34 22.81	1,649,973 85 5,361,345 40 742,825 66 99,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line Percentage of expenses to earnings, entire line.  Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD,  Date when the road was opened for use between its present termini: From Detroit to Butler, 1881.  MAIN LINE,  In Michigan, from Delray to Ohio State Line.  Total length completed  Total length completed  Total length of road belonging to this company in Michigan.	expenses. 18.99 17.24 56.01 7.76 100  \$1,235 34 22.81	1,649,973 85 5,361,345 40 742,825 66 99,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation. General expenses, including taxes.  Total operating expenses and taxes  Operating expenses and taxes per mile of road. Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line	\$1,235 34 22.81	1,649,973 80 5,361,345 40 742,825 66 99,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures	\$1,235 34 22.81	1,649,973 80 5,361,345 40 742,825 66 99,571,434 80 4,943 41 91.28 \$292,694 84
Maintenance of way and structures.  Maintenance of equipment. Conducting transportation General expenses, including taxes.  Total operating expenses and taxes per mile of road Operating expenses and taxes per mile of road Operating expenses and taxes per train mile run, for trains, earning revenue.  Proportion of operating expenses and taxes for Michigan, main line.  Percentage of expenses to earnings, entire line.  Net earnings per mile of road, entire line.  Net earnings per train mile, entire line.  DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini:  From Detroit to Butler, 1881.  MAIN LINE.  In Michigan, from Delray to Ohio State Line.  Total length completed  Total length of road belonging to this company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, compu	\$1,235 34 22.81	1,649,973 85 5,361,345 40 742,825 66 \$9,571,434 80 4,943 41 91.28 \$292,694 84  Milee. 75.9

# Proprietary or leased roads operated by this company.

Name, description and length of each:	Total miles.	In Michigan.
Detroit Union Depot & Terminal Association tracks Total miles operated by this company	1,979.6	4.6 80.5
Number of bridges and trestles in Michigan.  Wooden bridges	Number.	Aggregate length, feet.
Iron bridges Combination bridges. Wooden treaties		184 194 4,768
Total	. 119	5,472
Draw bridges in Michigan.		
How many on your line: One—not in operation.		
Where located, when built, and length of draw span: Over Rouge River, ½ mile west of Dearborn Road, Detroit. Draw span, 1 ber, 1893.	84 feet. Fini	shed Novem-
Character of structure: Through iron truss.		
Material of which constructed: Iron trues on masonry—7x7 oak ties.		
Height above water, and depth of water under bridge: Ten feet above, 15 feet under water.		
How swung, by engine or hand power? Hand power.		
Approaches straight or curved? Straight.		
Do you require all trains to come to full stop before crossing a draw, and how The draw is not yet in operation. Rails are continuous. No signals require	ware they signed.	naled?
Orossings.—Railroad and highway.		
What railroads cross your road at grade in this State, and at what locality?  Lake Shore & Michigan Southern R. R. at Delray, Raisin Center and Adria Michigan Central R. R. at Delray and West Detroit.  Flint & Pere Marquette R. R. at Romulus.  Toledo, A. A. & Northern Michigan R. R. at Milan. Cincinnati, Jackson & Mackinaw R. R. at Britton.	n.	
At what crossings are interlocking and derailing switches in operation?  L. S. & M. S.—Delray, Raisin Center and Adrian.  Michigan Central—Delray and West Detroit.  Flint & Pere Marquette—Romulus.		
What pattern or patterns have you adopted? Saxby and Farmer, made by Union Switch & Signal Co.		
Number of crossings of highways at grade in this State Number of crossings of highways at grade in this State at which there are gat	es or flagmen	159 1
Have safety guards been erected at overhead obstructions? Yes.		
Are your frogs and guard rails blocked as required by act 174, session laws 185 Yes.	337	
How are they treated? Blocked with plank.		
Stations.		
Number of stations on whole lines. Same in Michigan		466 16

# Employés.

Number of persons regularly employed	on all roads operated by cor	npany, includ	ling officials	7,678
Classify your employée as per followin	g list:			Number.
Baggagemen	₹			12
Brakemen				86 24
Conductors				20
Firemen				20 20
LaborersShopmen				189 26 56
Others				56
	REPAIRS AND RENEWALS.  Fencing in Michigan.			
How many miles of fencing have you?	•			75.198
How many miles of fencing have you?				10.150
Give the number of miles required to c and the counties in which needed: None. All fenced except in station l		f your track	in Michigan,	
	Road bed and track.			
Number of track sections in Michigan				12
Average lengths of sections, miles  Average number of men in each section	n gang	*		7.5
Average lengths of sections, miles	chigan			25,879
Average number of new ties per mile	or road			840
	Bridges and culverts.			
Timber culverts replaced during the ye				Number.
With iron pipe				2
With sewer pipe				ő
With timber				2
New bridges built during the year.—N	umber 1.			1
Location.	Kind.	Material.	Month built.	Feet in length.
One quarter of a mile west of Seneca.	Wooden	Piling	June, 1896	10% ft.
Number of locomotives of more than 8	LING STOCK.—ENTIRE	tender	Number. n 380 :	Present esti- nated value. 81,500,000 00
Number of locomotives of 20 to 80 tons	s weight, exclusive of tende	Br	88	114,000 00
Total.			418	1,614,000 00
Number of passenger cars—12-wheel, in Number of passenger cars—8-wheel, in	ncluding official cars		118 99	\$350,000 00 125,000 00
Number of express and baggage cars Number of box freight cars			110	100,000 00 1,175,000 00
Number of stock cars			1.085	200.000 00
Number of platform and ore cars Number of conductors' way cars			5,189	500,000 00 40,000 00
Other cars.			83	8,000 00
Total				2,498,000 00
Number of beautiful surjust 3 -441				402
Number of locomotives equipped with				
Number of freight cars equipped with	ped with power brakes power brakes			2,117
Number of freight cars equipped with  What patterns of power brakes have y each? All cars with Westinghouse. Locon	ped with power brakes power brakes ou in use, and number of le	ocomotives as	nd cars with	

Are your freight cars being equipped with automatic couplers as required by Act No. 147, Session Laws of 1885, as amended by Act No. 88, Session Laws of 1887?
Yes.

What pattern or patterns have you adopted for use? Gould.

How are your passenger cars heated? Hard coal stoves and hot water.

# MILEAGE, TRAFFIC, ETC.

Train mileage.	Entire lines, In	Michigan.
Miles run by passenger trains during the year Miles run by freight trains during the year	4,780,808 5,705,200	191,212 228,210
Total mileage of trains earning revenue	10,485,568	419,422
Passenger traffic.—Entire lines.		
Numbers	. Miles.	Rate.
Total number of passengers carried, earning revenue	48.5	•
Average amount received from each passenger Average receipts per passenger per mile for all passengers Estimated cost of carrying each passenger one mile		\$0 91.30 02.098 01.910
Passenger traffic.—In State of Michigan (Estimated)		
Total number of passengers carried, earning revenue 130,825  Number of passengers carried one mile 5,706,425	}	Rate.
Average distance carried  Average amount received from each passenger.  Average receipts per passenger per mile for all passengers.  Estimated cost of carrying each passenger one mile	48.5	\$0 91.80 02.098 01.910
Freight traffic.—Entire lines.		
Total tons of freight carried, earning revenue	1,142,477,577	Rate.
Average amount received for each ton haul Average receipts ton per mile, for all freight Estimated cost of carrying one ton one mile		\$1 38.98 00.689 00.517
Freight traffic.—In State of Michigan (Estimated).		
Tons.		Rate.
Total tons of freight carried, earning revenue 235,187 Total freight mileage or tons carried one mile	45,699,108 194.8	es 00 00
Average amount received for each ton haul  Average receipts ton per mile, for all freight  Estimated cost of carrying one ton one mile		\$1 88.98 00.689 00.517

# FREIGHT TRAFFIC MOVEMENT.-ENTIRE LINES.

# Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freig	ht tonnage.
Commodity.	on this road.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Products of agriculture:			1,178,979	20.05
FlourOther mill products			117,622 121,705	2.00 2.07
Hay			79,197	1.84
Tobacco			6,217	0.11
Cotton			20,592	Ŏ. <b>8</b> 6
Fruit and vegetables			87,182	1.48
Products of animals:				
Live stock	•	1	340,607	5.79
Dressed meats			126,675	2.15
Other packing house products			156,163	2.66
Wool			3,240	0.06
Hides and leather			84,079	0.58
Products of mines:		i I		
Anthracite coal		l	114,371	1.95
Bituminous coal			1.432.119	24.36
Coke		l	28,823	0.40
OresStone, sand and other like articles			4,843	0.08
Stone, sand and other like articles			121,490	2.07
Products of forest:				
Lumber			287,510	4.89
Other articles			116,978	1.99
Manufactures:				
Petroleum and other oils.			58,782	1.00
Sugar			42,157	0.72
Iron, pig and bloom			28,044	0.89
Iron and steel rails Other castings and machinery			6,687 29.915	0.10 0.51
Bar and sheet metal			29.915 30.586	0.52
Cement, brick, and lime			101,554	1.78
Agricultural implements			12,558	0.21
Wagona carriages tools etc	1		. 87151	0.15
Wines, liquors and beers Household goods and furniture			42,289	0.72
Household goods and furniture			15,049	0.26
Merchandise			408,215	6.94
Miscellaneous: Other commodities not mentioned above			721,896	12. <b>2</b> 8
Total tonnage			5,879,674	100.

# FREIGHT TRAFFIC MOVEMENT.-IN STATE OF MICHIGAN.-ESTIMATED.

# Company's material excluded.

0	Freight originating	Freight re- caived from connecting	Total freigh	it tonnage.
Commodity.	originating on this road. Whole tons.	roads and other carriers. Whole tons.	Whole tons.	Per cent.
Products of agriculture:				
Grain.			47,159	20.0
Flour			4,705	2.0 2.0
Other mill products			4,868 8,168	2.0 1.8
Tobacco			249	0.1
Cotton			824	0.8
Cotton Fruit and vegetables			8,487	1.4
Products of animals:	•			
Live stock				5.7
Dressed meats			5,067	2.1
Other packing house products			6,246	2.0
Wool			180	0.0
Hides and leather			1,863	0.0
Products of mines:				
Anthracite coal			4,575	1.1
Bituminous coal			57,285	24.3
Coke			1,153	0.4
Ores Stone, sand and other like articles			194 4.860	0.0 2.0
Products of forest:			.,	
Lumber			11,500	4.5
Other articles			4,679	1.5
fanufactures:				
Petroleum and other oils			2,849	1.0
Sugar			1,686	0.
Iron, pig and bloom			922	0.:
Iron and steel rails			267	Q.
Other castings and machinery Bar and sheet metal			1,197	0. 0.
Coment, brick and lime			1,223 4,062	Ϋ́.
Agricultural implements			1,002 502	ģ.
Wagona carriages tools ate			349	0.
Wines, lignors and hears			1,690	ŏ.
Wagons, carriages, tools, etc			7,602	
ferchandise			16,829	6.
fiscellaneous: Other commodities not mentioned above			28,878	12.
Total tonnage			235,187	100

#### ADDITIONAL QUESTIONS.

#### Express companies.

What express companies run on your road, and on what terms and what conditions as to rates, etc.; what kind of business is done by them, and do you take their freights at the depot, or at the office of such express companies?

Pacific Express Co.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong?

206.5 miles on Detroit Division. Western Union Telegraph Company.

#### Transportation Companies.

#### SLEEPING, DRAWING-ROOM AND PALACE CAR COMPANIES.

What sleeping, drawing-room, chair or other palace passenger cars, not the exclusive property of your own or some other railroad company, have, during the year, been in use on your road in the State of Michigau, and on what terms? If rented by you, or allowed mileage between local points in this State, what was the amount paid for the use of such cars during the period under report?

Name of company.	General office.	Amount paid.
Wagner Palace Car Co	New York, N. Y.	(*)

<sup>\*</sup> Not kept separate for Michigan.

#### Fast freight lines.

To what fast freight lines, or other transportation companies, running cars upon your road, not the exclusive property of any railroad company paying taxes in this State upon its gross receipts, have you paid car mileage or car rentals for the use of such cars, while in use for traffic between local points in this State, and what was the amount of such car rental or mileage paid?

Name of company.	General office.	Amount paid
Blue Line		·
Midland Line		Not kept separate
Erie Despatch		for Michigan.
National Despatch Line Hoosac Tunnel Line Lackawanna Line		

#### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

#### KILLED AND INJURED.

January 15, Jno. Mitchell, switchman, Delray. Coupling cars. Glove frozen to link; accidental. February 29, Theo. Warner, trespasser, Holloway. Foot caught between drawbars of cars on which he was stealing a ride; misconduct.
April 29, Wm. Hunter, citizen, North Morenci. Killed by being struck on crossing; was blind. September 7, John Clark, boy 15 years, trespasser, Detroit. Jumped from moving train and died from injuries.

November 25, C. D. Sonday, fireman, Milan. Fell from engine while lighting headlight; accidental.

#### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Common of analysis	Killed.		Injured.			
Causes of accident.	Passengers,	Employés.	Others.	Passengers,	Employés.	Others.
Coupling cars Falling from trains					1	
Highway crossings.  Trespassers on trains			i			i
Total			2		2	1

#### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons killed during the year	2
Number of persons injured during the year	3
Number of casualties purely accidental	8
Number resulting from lack of caution, carelessness, or misconduct.	2
Trespassors and tramps killed or injured.	2

#### CLASSIFICATION OF EMPLOYÉS.

#### KILLED OR INJURED IN MICHIGAN.

·	Killed.	Injured.	Total.
Firemen Yardmen		1	1 1
Total		2	2

STATE OF MISSOURI, } 88.

Joseph Ramsey, vice president, of the Wabash Railroad Company, being duly aworn deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. OF R. R.]

Signed,

JOS. RAMSEY, JR.,

Vice President and General Manager.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

Commission expires Nov. 1, 1897,

B. C. WINSTON, Notary Public, City of St. Louis, Mo.

# DEPOT AND STATION COMPANIES

OF THE

# DETROIT UNION RAILROAD DEPOT & STATION COMPANY,

For the year ending December \$1, 1896.

[Filed March 27, 1897.]

#### NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY.

President, JAMES JOY, Detroit, Mich. Vice President, HENRY B. JOY, Detroit, Mich. Secretary, JAMES G. MILLER, Detroit, Mich. Treasurer, HENRY B. JOY, Detroit, Mich.

#### ORGANIZATION, ETC.

When chartered or articles of association filed: June 11, 1881.

Number of stockholders at date of last election: 17.

Number of stockholders in Michigan at same date: 15.

Date of annual meeting of stockholders: On the first Wednesday in February.

General offices of company located at Detroit, Mich.

#### STOCKHOLDERS, DECEMBER 31, 1896.

Names.	Residence.	Amount held.
James F. Joy James Joy, Henry B. Joy, and R. P. Joy, trustees James Joy, Henry B. Joy, Henry B. Joy, guardian  Richard P. Joy Helen N. Joy Louise Todd Joy Allan Shelden James Mowillan	Detroit, Mich.	\$40,000 0 205,000 0 127,500 0 182,500 0 56,360 0 132,500 0 63,200 0 56,700 0 506,300 0 281,200 0
I. D. Buhl Frank H. Buhl Contine Buhl Helen H. Newberry, executrix	Sharon, Pa	260,000 0 185,000 0 10,000 0 56,300 0
Helen H. Newberry. Truman H. Newberry	64 64	56,200 0 56,300 0 56,300 0 19,200 0
Total		\$2,250,000

#### CAPITAL STOCK.

By whom subscribed.	Residence.	No. of shares.	Amount.
James F. Joy C. H. Buhl Allen Shelden James McMillan John S. Newberry R. A. Alger M. S. Smith G. W. Balch	4 4	1,666% 1,666% 1,666% 1,250 1,250 1,250 83834 83834 83834	\$166,667 00 166,667 00 125,000 00 125,000 00 88,338 00 83,338 00
Total		10,000	\$1,000 000 0

#### ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

There is no funded debt. No mortgages or encumbrance of any kind whatever upon this company's property. The bonds issued some years ago have all been cancelled and stock issued therefor. There is now only a stock issue outstanding for say \$2,250,000.

# COST.

Of real estate, including right of way. Of depot buildings and fixtures. Of elevators and belongings Other items. Of all other property.  Total cost.	62,196 27 308,595 87 114,558 96 611,187 81
CASH PAID TO CORPORATION.	
On account of original capital stock. On account of increase of capital stock On other accounts, other than for income.	1.250.000 00
Total cash paid	
•	
TRACK.	
Length of single main track—miles	8.84 8.50
Total track	6.84
analysis of Earnings and Expenses.	
EARNINGS.	
From rentals From all other sources	\$92,287 47 19,811 72
Total earnings.	\$112,099 19
EXPENSIA.	
Operating,	
Salaries of officers and clerks Management and maintenance Taxes Miscellaneous	\$2,500 00 19,326 36 4,024 41 38 52
Total	\$25,884 29

#### RECAPITULATION.

Expenses for operating and taxes	\$25,884 29
•	
Total expenses for the year	\$25,884 29

#### ADDITIONAL INTERROGATORIES.

#### DESCRIPTION AND CHARACTER OF BUILDINGS AND OTHER PROPERTY.

Passenger houses, brick; not used as such any longer.
Freight houses, brick; number, one.
Grain elevator, brick; number, one, capacity, about 1,250,000 bushels.
Sheds, freight, brick; number, one.
Water front and docks, feet: About 2,500 feet, with two large ferry slips to accommodate freight and passenger transfer across the Detroit river.

#### STREET CROSSINGS, BTC.

At grade, number, 19.
Frogs and guard rails, are they blocked as required by law? Yes.

#### CONTRACTS AND LEASES.

What railroad companies have rented terminal privileges from you during the year, and on what terms? No railroad companies have rented terminal privileges during 1896. On February 27, 1896, Hon. James F. Joy sent per U.S. mail a book containing all the contracts and leases of this company, to be placed on file in your office, for your information.

#### VERIFICATION.

STATE OF MICHIGAN, COUNTY OF WAYNE, \$88.

James Joy, president, and James G. Miller, secretary, of the Detroit Union Railroad, Depot and Station Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the said company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

Signed,

JAMES JOY. JAMES G. MILLER.

Subscribed and sworn to before me this 26th day of March, A. D. 1897.

[L. S.]

F. W. DERINES. Notary Public.

OF THE

# FORT STREET UNION DEPOT COMPANY,

For the year ending December 31, 1896.

[Filed March 24, 1897.]

# NAMES AND RESIDENCES OF OFFICERS OF THE COMPANY.

President, WM. W. CRAPO, New Bedford, Mass. Vice President, CHAS. M. HEALD, Grand Rapids, Mich. Secretary and Treasurer, HENRY B. JOY, Detroit, Mich.

#### ORGANIZATION, ETC.

When chartered or articles of association filed: August 24, 1889.
Number of stockholders at date of last election: 15.
Number of stockholders in Michigan at same date; 7.
Date of annual meeting of stockholders: First Wedneeday in February.
General offices of the company are located at Boom 1, Newberry Building, Detroit, Mich.

#### STOCKHOLDERS, DECEMBER 31, 1896.

Names.	Residence.	Amount held
W. C. Van Horne	Montreal	\$125,000 0
T. G. Shaughnessy	Montreal	92,500 0
Thos. Tait	Montreal New Bedford	32,500 0
Wm. W. Crapo	New Bedford	50,000 0
Wm. W. Crapo, trustee	New Bedford	199,000 0
Stanford T. Crapo N. Thayer, Chas. Merriam and E. N. R. Thayer, trustees	Saginaw	1,000 0
under will of H. Thayer.	Roston	249,000 0
Chas. M. Heald	Boston Grand Rapids	1.000 0
James Joy	Detroit.	14,000 0
vames voj	Doutoit	12,000 0
Henry B. Joy	Detroit	13.000 0
J. Ramsey, Jr.	St. Louis	1,000 0
Richard P. Joy	Detroit	14,000 0
J. Joy, H. B. Joy and R. P. Joy executors under will of		,
J. F. Joy	Detroit	42,800 0
Allan Sheiden	Detroit	56,900 0
Frank H. Buhl	Sharon, Penn.	15,200 0
Pheo. D. Rπhl	Detroit	80,400 0
Helen H. Newberry, executrix.	Detroit	31,600 0
Helen H. Newberry, executrix	Detroit	31,600 0
Total		\$1,000,000 0

# ORIGINAL CAPITAL STOCK SUBSCRIBERS.

By whom subscribed.	Residence.	No. of shares.	Amount.
W. C. Van Horne O. D. Ashley Edm. R. Osler Wm. W. Crapo R. G. Butler	New York	250	\$100,000 0 100,000 0 25,000 0 75,000 0 25,000 0
Lewis Pierce	New York Boston, Mass. Boston, Mass.	250 625	25,000 0 25,000 0 62,500 0 62,500 0 1,000 0
Total		5,010	\$501,000 0

Capital stock since increased to \$1,000,000 all paid in.

# ANALYSIS OF DEBT ACCOUNTS.

#### FUNDED DEBT.

Character and date of issue.	Rate of interest.	When due.	Payable when.	Amount outstanding.
First mortgage bonds	4168	1941	January and July	\$1,000,000 00
	unfunded	DEST.		
For real estate and construction, i. e., to con	mplete the	work-Bills pay	aple	\$310, <b>694 40</b>
1	RECAPITUI	ATION.		
Total funded debt Total unfunded debt	·			\$1,000,000 00 \$10,694 40
Total indebtedness				\$1,310,694 40
Total stock and debt				\$2,310,694 40
	COST	r <b>.</b>		
Of real estate, including right of way Of depot buildings and fixtures, and elevate Of all other property	d railroa	d structure	·	\$1,259,212 74 699,927 48 349,509 61
Total cost.				\$2,308,649 88
CASH 1	PAID TO O	ORPORATION.		•
On account of original capital stock On account of increase of capital stock On other accounts, other than for income:				499,000 00
Bonds soldBills payable				1,000,000 00 310,694 40
Total eash paid				
	TRAC	K.		•
Length of double track, main line—miles. Length of sidings and other tracks—miles.				1.41 1.27
Total track		**********		2.68

#### ANALYSIS OF EARNINGS AND EXPENSES.

#### BARNINGS.

From rentals From all other sources	\$125,437 29 711 93
Total earnings	\$126,149 22
EXPENSES.	
Operating.	
Salaries of officers and clerks Taxes Miscellaneous	\$1,500 00 6,693 11 150 78
Total.	\$8,843 84
RECAPITULATION.	
Expenses for operating and taxes	\$8,848 84
Total expenses for the year	8,843 84

#### ADDITIONAL INTERROGATORIES.

#### DESCRIPTION AND CHARACTER OF BUILDINGS AND OTHER PROPERTY.

Passenger houses, brick and stone, number, 1. Freight houses, brick and stone, number, 1.

#### STREET CROSSINGS, ETC.

Over or under grade?
Approach is by elevated railroad along and over a street for about two-thirds of a mile.
Over bridges, number, 1.

Frogs and guard rails, are they blocked as required by law?
Yes.

#### CONTRACTS AND LEASES.

What railroad companies have rented terminal privileges from you during the year and on what terms? This company's property is leased to and occupied by the following four railroads, viz.: Wabash, F. & P. M., D, L. & N., and Canadian Pacific, upon the terms that each road shall pay its share of an annual rental sufficient to pay 5% per annum on the stock and bonds; also, cost of operation expense and interest on floating debt.

#### VERIFICATION.

STATE OF MICHIGAN. } as.

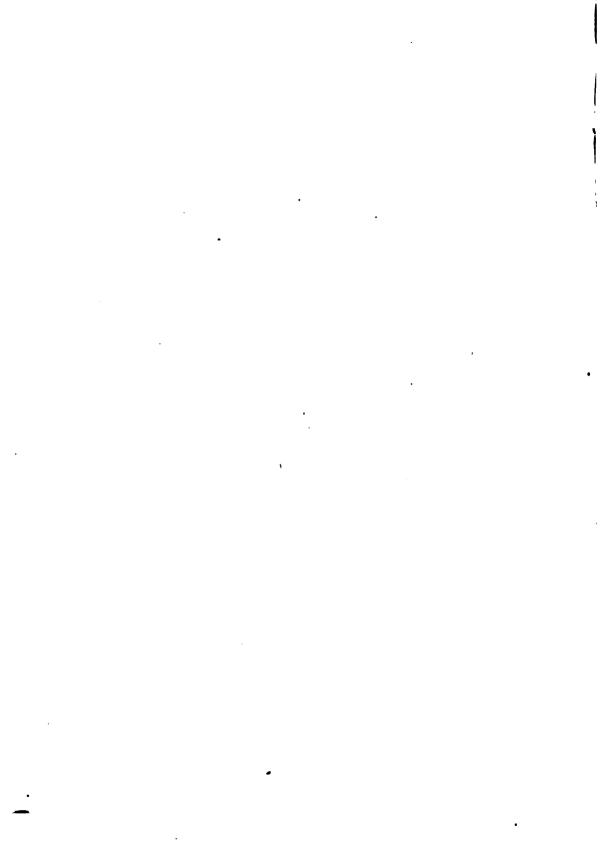
Wm. W. Crapo, president, and Henry B. Joy, secretary, of The Fort Street Union Depot Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of the said company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

WM. W. CRAPO, President. HENRY B. JOY, Secretary,

Subscribed and sworn to before me this 3d day of February, A. D. 1897.

[L. 8.]

F. W. DENNIS, Notary Public.



# ORE AND FOREST ROADS

#### OF THE

# . BEAR LAKE & EASTERN RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed January 6, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, G. W. HOPKINS, Bear Lake, Mich.
Secretary, D. H. HOPKINS, Bear Lake, Mich.
Auditor, G. W. HOPKINS, Bear Lake, Mich.
Treasurer, E. S. HOPKINS, Bear Lake, Mich.
General Manager, G. W. HOPKINS, Bear Lake, Mich.
General Superintendent, C. G. WAREHAM, Bear Lake, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: January 24, 1882. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: All of stock. Date of annual meeting of stockholders: January 31. Fiscal year of company ends: December 31. General offices of the company are located at Bear Lake, Mich.

#### GENERAL EXHIBIT.

Total earnings from operation. Debit.  Total expenses, included taxes. \$5,578 58	Credit. \$7,395 28
Net income.	\$1,821 70
Balance for the year	\$1,821 70
Balance (profit and loss) last year.	10,314 51
Balance forward to next year	\$12,136 21
ANALYSIS OF CAPITAL STOCK.	
Amount authorized by charter or articles of association Par value of shares	\$250,000 00
Total amount paid in, as per books of the company.	104,664 00
Paid in per mile of road owned by company, 18 miles	5,814 66

# ANALYSIS OF DEBT ACCOUNTS.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For miscellaneous	To be paid from net earnings	\$8,691
	RECAPITULATION.	
otal unfunded debt		\$8,691
Total debt liabilities		\$ 8,691
mount of debt liabilities per mi otal amount of stock and debt_ tock and debt per mile of road,	lle of road, 18 miles	482 8 113,855 7 6,297 8
•	GENERAL BALANCE SHEET.—Dr.	
construction account		\$95,276 80,215
• •		
10tat		\$125,491
	CHANDAY DAYANGE CYTHE	
	GENERAL BALANCE SHEET.—Cr.	0101 001
nfunded debt		\$104,664 ( 8,691
rofit and loss or income accoun	ta	8,691 12,136
Total	COST OF ROAD AND EQUIPMENT.	\$125,491
Total	T8	\$125,491
Total	COST OF ROAD AND EQUIPMENT.	\$125,491 t
Total	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment	\$125,491 t
Total cost for construct  Total expended for construction werage cost per mile of road (no reportion of cost for Michigan ANALYSIS OF E	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment.  t including sidings), 18 miles	\$125,491 t
Total cost for construction account record account record according to the following cost per mile of road (no reportion of cost for Michigan ANALYSIS OF Edin line and branches:	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment	\$125,491 t
Total cost for construction tall axpended for construction of cost for Michigan.  ANALYSIS OF E	COST OF ROAD AND EQUIPMENT.  Ition and equipment of road and branches built by company and equipment to including sidings), 18 miles.  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER BARNINGS.  \$24 70  t earnings	\$125,491 y. \$125,491 6,971 6,971
Total cost for construction verage cost per mile of road (no roportion of cost for Michigan.  ANALYSIS OF E	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment	\$125,491 y. \$125,491 6,971 6,971
Total cost for construct  Total cost for construct  otal expended for construction verage cost per mile of road (ne reportion of cost for Michigan  ANALYSIS OF E  total passenger fares  Total passenger departmen  fain line and branches:  Total traffic	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment.  tincluding sidings), 18 miles.  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER EARNINGS.  \$24 70  t earnings.  FREIGHT EARNINGS.	\$125,491 \$125,491 \$125,491 6,971 6,971
Total cost for construct  Total cost for construct  otal expended for construction verage cost per mile of road (ne reportion of cost for Michigan  ANALYSIS OF E  fain line and branches: Total passenger fares  Total passenger departmen  fain line and branches: Total traffic	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment.  tincluding sidings), 18 miles.  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER EARNINGS.  \$24 70  t earnings.  FREIGHT EARNINGS.  \$7,370 58	\$125,491 y. \$125,491 6,971 6,971 824
Total cost for construct  Total cost for construct  Total expended for construct  Total expended for construct  Total expended for construct  Total passenger for Michigan  ANALYSIS OF E  Total passenger fares  Total passenger departmen  Total traffic	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment.  tion including sidings), 18 miles.  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER BARNINGS.  \$24 70  t earnings  FREIGHT EARNINGS.  \$7,370 58  arnings  atire line  \$410 85	\$125,491 \$125,491 \$125,491 6,971 6,971
Total cost for construct  Total cost for construct  Total expended for construct  Total expended for construct  Total expended for construct  Total passenger for Michigan  ANALYSIS OF E  Total passenger fares  Total passenger departmen  Total traffic	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment.  tion including sidings), 18 miles.  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER BARNINGS.  \$24 70  t earnings  FREIGHT EARNINGS.  \$7,370 58  arnings  atire line  \$410 85	\$125,491 y. \$125,491 6,971 6,971 824
Total cost for construct  Total cost for construct  Total expended for construct  Total expended for construct  Total expended for construct  Total passenger for Michigan  ANALYSIS OF E  Total passenger fares  Total passenger departmen  Total traffic	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment.  tincluding sidings), 18 miles.  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER EARNINGS.  \$24 70  t earnings.  FREIGHT EARNINGS.  \$7,370 58	\$125,491 \$125,491 \$125,491 6,971 6,971 \$24 7,870 \$7,895
Total cost for construct  Total cost for construct  Total expended for construction verage cost per mile of road (no roportion of cost for Michigan  ANALYSIS OF E  fain line and branches: Total passenger fares  Total passenger departmen  fain line and branches: Total transportation earnings, en cransportation earnings, en cotal earnings form operation of total earnings per mile of road roportion of taxable earnings for	COST OF ROAD AND EQUIPMENT.  tion and equipment of road and branches built by company and equipment.  tion including sidings), 18 miles.  CARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  PASSENGER BARNINGS.  \$24 70  t earnings  FREIGHT EARNINGS.  \$7,370 58  arnings  atire line  \$410 85	\$125,491 \$125,491 6,971 6,971 824 7,370 87,395

# ANALYSIS OF EXPENSES.

#### MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway		\$1,682 87 127 20 10 42
Total		\$1,820 49
MAINTENANCE OF EQUIPMENT.		
Repairs and renewals of locomotives		\$235 81 378 88
Total	•	\$613 69
CONDUCTING TRANSPORTATION.		
Superintendence		\$1,000 00
Fuel for locomotives Oil, tallow and waste for locomotives Train service		\$1,000 00 647 70 80 32 790 28
Total		\$2,518 80
General Expenses.		
Salaries of general officers		\$300 00
Salaries of general officers		175 00 146 10
Total		<b>\$621 10</b>
RECAPITULATION OF EXPENSES.		
Maintenance of way and sturatures		\$1,820 49
Maintenance of way and structures		613 69
Conducting transportation		2,518 <b>30</b> 621 10
General expenses, including taxes		621 10
Total operating expenses and taxes		\$5,573 58
Operating expenses and taxes per mile of road Total proportion of expenses for Michigan Percentage of expenses to earnings.	75.78	309 64 5,573 58
DESCRIPTION OF ROAD.		•
Date when the road was opened for use between its present termini: From Pierport, Mich., to Maple Grove, Mich., Nov. 1, 1887.		
MAIN LINE.		
EAR MAE.	Miles.	Miles.
In Michigan, from Pierport to Maple Grove	18	
Total length completed		18
		18
Total length of road belonging to this company.  Total length of road belonging to this company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, compute track.	18 d as single	18
Gauge of track, 3 feet.		
If north of parallel 44 of latitude: Yes.		
Number of bridges and trestles in Hichigan.	Nn-ba-	Aggregate
Wooden bridges	Number. 8	length feet. 96 766
Total	6	<del></del>

\$30,215 72

# Crossings.-Railroad and highway. 13 Stations. Employés. Number of persons regularly employed on all roads operated by company, including officials Same in Michigan Classify your employés as per following list: Number. Engineers Firemen. Laborers Shopmen. REPAIRS AND RENEWALS. Fencing in Michigan. How many miles of fencing have you? 17 Give the number of miles required to complete fence both sides of your track in Michigan, and the counties in which needed: Manistee county..... 19 Total miles required ..... 19 Road bed and track. Number of track sections in Michigan Average lengths of sections, miles Average number of men in each section gang New bridges built during the year-number, 1. feet in Location. Kind. Material. Month built. length. Manistee County Wooden trestle ..... July ..... ROLLING STOCK. Present esti-Number. mated value. \$9,500 00 \$1,000 00 16,215 72 3,500 00 53 14

#### ADDITIONAL QUESTIONS.

#### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? Six. Poles to B. L. & E. R. R.; wire to Western Union Telegraph Co.

STATE OF MICHIGAN, COUNTY OF MANISTEE, SS.

G. W. Hopkins, president, and E. S. Hopkins, treasurer, of the Bear Lake and Eastern Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

GEO. W. HOPKINS, E. S. HOPKINS.

Subscribed and sworn to before me this 5th day of January, A. D. 1897.

[L. 8.

C. C. Burgess, Notary Public.

OF THE

# CRAWFORD & MANISTEE RIVER RAILWAY COMPANY,

For the year ending December 81, 1896,

[Filed April 7, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, A. E. CARTIER, Ludington, Mich.
Vice President, JAMES DEMPSEY, Manistee, Mich.
Secretary and Auditor, WM. WENTE, Manistee, Mich.
Treasurer, L. T. DEMPSEY, Manistee, Mich.
General Manager and General Superintendent,
N. DOWEN, Fletcher, Mich.
General Freight Agent, N. DOWEN, Fletcher, Mich.

#### DIRECTORS.

ALLEN MOKEE, Manistee, Mich.
Term expires December 1, 1897.

A. E. CARTIER, Ludington, Mich.
Term expires December 1, 1898.

JAMES DEMPSEY, Manistee, Mich.
Term expires December 1, 1899.

L. T. DEMPSEY, Manistee, Mich.
Term expires December 1, 1901.

WM. WENTE, Manistee, Mich.
Term expires December 1, 1902.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: September 28, 1885. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$50,000. Date of annual meeting of stockholders: First Tuesday in December. Fiscal year of company ends: December 31. General offices of the company are located at Manistee, Mich.

GENERAL EXHIBIT. Debit.	Credit.
Total earnings from operation.  Total expenses, including taxes	\$7,687 52
Net income	\$77 25
Balance applicable to dividends	77 25 266 01
Balance for the year	
Balance (profit and loss) last year	188 76

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association		\$50,000 00
Par value of shares	\$50,000 00	
Total amount paid in as per books of the company		50,000 00
Paid in per mile of road owned by company		5,000 00
Late in bot miss of four owners of company		
ANALYSIS OF DEBT ACCOUNTS.		
RECAPITULATION.		
Total debt liabilities.		\$50,000 00
Amount of debt liabilities per mile of road, 10 miles		5.000 00
Total amount of stock and debt.  Stock and debt per mile of road, 10 miles.		50,000 00 5,000 00
'		
GENERAL BALANCE SHEET.—Dr.		
Construction account	\$45,566 58 11,618 18	
•	11,618 18	
Total		\$57,184 76
GENERAL BALANCE SHEET.—Cr.		
Capital stock	\$50,000.00	
Profit and loss or income accounts	\$50,000 00 7,184 76	
Total		\$57,184 76
	=	
COST OF ROAD AND EQUIPMENT.		
•		
Total cost for construction and equipment of road and branches built	by company.	
Total expended for construction and equipment  Average cost per mile of road (not including sidings), 10 miles.		\$57,184 76
Proportion of cost for Michigan		5,718 47 57,184 76
-		
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MICE	HGAN.	
Main line and branches:		
Through traffic	\$7,687 52	
Total traffic		\$7,687 52
Total freight department earnings		\$7,687 52
Per train mile	\$0 72	
Per mue or road	768 75	
		** *** **
Total transportation earnings, entire line.  Transportation earnings per mile of road.  Transportation earnings per train mile.	\$768 75 72	\$7,687 52
Total earnings from operation of road.		\$7,687 52
Total earnings per mile of road	768 75	
Total earnings per train mile Proportion of taxable earnings for Michigan	7,687 52	
Total income from all sources		\$7,687 52

# ANALYSIS OF EXPENSES.

#### MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway	\$3,214 14 360 00
Total	\$3,574 14
MAINTENANCE OF EQUIPMENT.	
Repairs and renewals of locomotives.	\$60 00
Repairs and renewals of freight cars	\$60 00 1,182 85
Total	\$1,242 85
CONDUCTING TRANSPORTATION.	
Engine and roundhouse men.	\$924 20
Fuel for locomotives } Water supply for locomotives } Other supplies for locomotives	657 93
Other supplies for locomotives	211 18
Station service	514 15 258 75
Stationery	114 54
Other expenses.	\$2,675 75
Total	\$2,615 15
ABVED II BYDBYGDG	
GENERAL EXPENSES.  Taxes	8117 58
Total	\$117 58
RECAPITULATION OF EXPENSES.	
· Per cent o expenses.	
Maintenance of way and structures 46.96	£3.574 14
Maintenance of equipment 16.33 Conducting transportation 35.16	1,242 85 2,675 75
Conducting transportation 35.16 General expenses, including taxes 1.55	117 58
Total operating expenses and taxes 100.00	\$7,610 27
Operating expenses and taxes per mile of road \$761 03	
Operating expenses and taxes per mile of road	
Proportion of operating expenses and taxes for Michigan—Main line.	\$7,610 27
Percentage of expenses to earnings 98.99  Net earnings per mile of road 98.99	7 72
Net earnings per train mile	0.72
DESCRIPTION OF ROAD.	
MAIN LINE.	
Miles.	Miles.
In Michigan, from Manistee River to forest terminus	10
Total length completed	10
Total length completed	3
Aggregate length of tracks in Michigan belonging to this company, computed as single track.	13
Gauge of track, 3 feet.	
Crossings.—Railroad and highway.	
Number of crossings of highways at grade in this State	8

# Stations.

Number of stations on whole lines.			2
$Employ\'es.$			
Number of persons regularly employed on all roads operated by compactlassify your employée as per following list:	any, includ	ing officials	18
Brakemen. Conductors Engineers Firemen Laborers Shopmen			Number. 1 1 1 1 18 18
REPAIRS AND RENEWALS.			
Road bed and track.  Number of track sections in Michigan			6,000 6,000 600
ROLLING STOCK.  Number of locomotives of 10 to 20 tons weight, exclusive of tender		Number. 1	Present esti- nated value. \$4,000 00
Total.			\$4,000 00
Number of platform cars		84 2	\$5,100 00 50 00
Total		86	<b>\$5,150 00</b>
MILEAGE, TRAFFIC, ETC.			
Train mileage.			All in Michigan.
Miles run by freight trains during the year			10,600
Total mileage of trains earning revenue			10,600
Freight traffic.—Road all in State of Mic	higan.		
Number of tons of through freight carried, earning revenue	Tons. 31,147	Miles.	Rate.
Total tons of freight carried, earning revenue	31,147		
Total mileage of through freight.		10	
Total freight mileage or tons carried one mile		81,147	
Average ton haul for through freight		10 10	\$0 24.6 02.4
Average receipts ton per mile, for through freight Average receipts ton per mile, for all freight Estimated cost of carrying one ton one mile		***************************************	02.4 02.1

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

O	Freight coired from connecting on this road. Whole tons.	ceived from	Total freight tonnage.	
Commodity.		Whole tons.	Per cent.	
Products of forest:	31,147		81,147	100.

STATE OF MICHIGAN, \ COUNTY OF MANISTEE, \ \ \ \ 88.

James Dempsey, vice president, and Wm. Wente, secretary of the Crawford & Manistee River Railway Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.] Signed, JAMES DEM

JAMES DEMPSEY, Vice President. WM. WENTE, Secretary.

Subscribed and sworn to before me this 5th day of April, A. D., 1897.

James W. Dempsey, Notary Public Manistee Co.

#### OF THE

# DEAD RIVER RAILROAD COMPANY,

For the year ending December \$1, 1996.

[Filed April 10, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, WILLIAM KNIGHT, Cleveland, Ohio. Secretary, W. A. BROWN, Marquette, Mich. Treasurer, B. K. HAWLEY, Cleveland, Ohio,

#### DIRECTORS.

B. K. HAWLEY, Cleveland, Ohio. WILLIAM KNIGHT, Cleveland, Ohio. JAMES BRAHAMEY, Marquette, Mich. D. H. BALL, Marquette, Mich. GEO. P. CUMMINGS, Detroit, Mich.

# STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: November 11, 1889.
Number of stockholders at date of last election: 7.
Number of stockholders in Michigan at same date: 5.
Amount of full paid stock held in Michigan at same date: Not any.
Date of annual meeting of stockholders: No arrangement for annual meeting.
Fiscal year of company ends: December 31.
General offices of the company are located at Marquette, Mich.

#### REMARKS.

This road is operated by the Duluth. South Shore & Atlantic Railway Company under contract with R. K. Hawley and T. H. McGraw, wherein said Duluth, South Shore & Atlantic Railway Co., agree to haul certain logs belonging to said Hawley & McGraw, for a stated price per thousand feet.

# ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association			\$25,000 00
Par value of shares. Amount paid in on preferred, 5% of 200. Cost of construction paid in full	\$100 00	\$1,000 00 51,010 96	
Cost of construction paid in full		51,010 96	
Total amount paid in, as per books of the company			\$52,010 96
Paid in per mile of road owned by company	•		17,458 34

#### DEAD RIVER RAILROAD COMPANY.

#### ANALYSIS OF DEBT ACCOUNTS.

#### RECAPITULATION.

Total amount of stock and debt	\$25,000 00 8,389 26			
COST OF BOAD AND EQUIPMENT.				

 ${\it Total \ cost for \ construction \ and \ equipment \ of \ road, \ and \ branches \ built \ by \ company.}$ 

Total expended for construction \$\$1,010 96
Average cost of construction per mile of road (not including sidings), 2 98 miles 17,117 77
Proportion of cost of construction for Michigan: All in Michigan.

#### DESCRIPTION OF ROAD.

Date when the road was opened for use between its present termini: August 11, 1890.

MAIN LINE.	Miles.	Miles.
Length completed in Michigan	2.98	AL 1105.
Total length completed		2.98
Total length of road belonging to this company		2.98
Total length of road belonging to this company in Michigan	2.98 .17 .17	
Aggregate length of tracks belonging to this company, computed as single track		8.15
Same in Michigan	8.15	

Gauge of track, 4 feet 81/4 inches.

STATE OF MICHIGAN, COUNTY OF MARQUETTE, }88.

William Knight, president, and W. A. Brown, secretary, of the Dead River Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers, and agents of this company, and having carefully examined the same, declare them to be a true, full, and correct statement of the stock, debt and other matters as therein contained of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WILLIAM KNIGHT, President. W. A. BROWN, Secretary.

Subscribed and sworn to before me this 8th day of April, A. D. 1897. [L. s.]

F. J. SCHULTHEIS, Notary Public, Marquette Co., Mich.

#### OF THE

# HECLA & TORCH LAKE RAILROAD COMPANY,

For the year ending December 31, 1896.

[Filed February 28, 1897.]

#### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, ALEX AGASSIZ, Boston.
Secretary, J. N. COX, Calumet.
Treasurer, J. N. COX, Calumet.
General Manager, S. B. WHITING, Calumet.
General Superintendent, W. A. CHILDS, Calumet.
Assistant General Superintendent, CHRIST BURCH, Calumet.

#### DIRECTORS.

ALEX. AGASSIZ, Cambridge, Mass. Q. A. SHAW, West Boxbury, Mass. S. B. WHITING, Calumet, Mich. JOHN DUNCAN, Calumet, Mich. W. A. CHILDS, Calumet, Mich. Terms expire June, 1897.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: 1867.
Number of stockholders at date of last election: 5.
Number of stockholders in Michigan at same date: 3.
Amount of full paid stock held in Michigan at same date: \$200.00.
Date of annual meeting of stockholders: Third Wednesday in June,
Fiscal year of company ends April 30.
General offices of the company are located at Calumet, Mich.

#### REMARKS.

The road is operated and wholly owned by the Calumet and Hecla Mining Co., which pays any deficit that may occur for the privilege of having its rock transported free.

	Debit. 104,052 72	Credit. \$104,052 72		
ANALYSIS OF CAPITAL STOCK.				
Amount authorized by charter or articles of association Par value of shares Number of shares issued 1,000	\$100 00	\$150,000 00		
Total amount paid in, as per books of the company  Paid in per mile of road owned by company.		100,000 00 13,333 33		

# ANALYSIS OF DEBT ACCOUNTS.

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For construction		\$690,282 8
	BECAPITULATION.	
Total unfunded debt	•	\$690,282 8
	***************************************	\$690,282 8
Amount of debt liabilities per mile Total amount of stock and debt_ Stock and debt per mile of road, 7	e of road, 7½ miles	92,037 7 790,282 8 105,363 7
G	ENERAL BALANCE SHEET.—Dr.	
Construction account	\$790,282 84	
Total		\$790,282 8
G	ENERAL BALANCE SHEET.—Cr.	
Capital stock Unfunded debt	\$100,000 00 	
Total	······	\$790,282 8
Total cost for construction	OST OF ROAD AND EQUIPMENT.  on and equipment of road, and branches built by company and equipment	y. <b>\$790,28</b> 2 8
	tincluding sidings)	\$105,363 7
ANALYSIS OF E	ARNINGS.—ROAD ALL IN STATE OF MICHIGAN.	
	FREIGHT EARNINGS.	
Main line and branches: Local traffic		\$101,422 9
Transportation earnings per mile	re linesof road	\$104,052 77 13,874 30 1 90
Transportation earnings per mile (	of road	13,874 8
Transportation earnings per mile : Transportation earnings per train	of road	13,874 8
Transportation earnings per mile of transportation earnings per train  MA  Repairs of roadway	ANALYSIS OF EXPENSES.	13,874 8

MAINTENANCE OF EQUIPMENT.

Not kept separate.

# CONDUCTING TRANSPORTATION.

m-4-3	\$11,431 24 49,708 35 25,339 56
Total	\$86,479 20
General Expenses.	
'axes	\$2,629 74
Total	\$2,629 74
RECAPITULATION OF EXPENSES.	
laintenance of way and structures	\$17,573 52
onducting transportationeneral expenses, including taxes	83,849 46 2,629 74
Total operating expenses and taxes	\$104,052 72
DESCRIPTION OF ROAD.	
MAIN LINE.	Miles.
n Michigan, from Calumet to Lake Linden	
BRANCHES.	
rom Hecla to South Hecla 1 rom Hecla to Calumet 3	.2
Total length of branches owned by company	1.2
otal length of branches owned by company in Michigan	. 7.2
auge of track, 4 feet 1 inch.	
Number of bridges and trestles in Michigan.	Aggregate r. length feet.
	5 1,500
	====
- · · · · · ·	
7 coden trestles	
Crossings.—Railroad and highway.  That railroads cross your road at grade in this State, and at what locality?  Mineral Range R. R. at Calumet.  That railroads cross your road either over or under your grade in this State, and where?  Under:	
Crossings.—Railroad and highway.  That railroads cross your road at grade in this State, and at what locality?  Mineral Range R. R. at Calumet.  That railroads cross your road either over or under your grade in this State, and where?	
Crossings.—Railroad and highway.  That railroads cross your road at grade in this State, and at what locality?  Mineral Range R. R. at Calumet.  That railroads cross your road either over or under your grade in this State, and where?  Under:  Hancock & Calumet R. R. at Calumet.  t what crossings are interlocking and derailing switches in operation?  Mineral Range.  That pattern or patterns have you adopted?  U. S. & S. Co.	
Crossings.—Railroad and highway.  That railroads cross your road at grade in this State, and at what locality?  Mineral Range R. R. at Calumet.  That railroads cross your road either over or under your grade in this State, and where?  Under:  Hancock & Calumet R. R. at Calumet.  t what crossings are interlocking and derailing switches in operation?  Mineral Range.  That pattern or patterns have you adopted?  U. S. & S. Co.	3 nan 2
Crossings.—Railroad and highway.  That railroads cross your road at grade in this State, and at what locality?  Mineral Range R. R. at Calumet.  That railroads cross your road either over or under your grade in this State, and where?  Under:  Hancock & Calumet R. R. at Calumet.  t what crossings are interlocking and derailing switches in operation?  Mineral Range.	2 1 1

# Employés.

Number of persons regularly employed on all roads operated by company, including official	s. 88
Classify your employée as per following list:	Number.
Brakemen	
Firemen Laborers Shopmen Yardmen	80 4
Others	10
REPAIRS AND RENEWALS.	
Fencing in Michigan.	
How many miles of fencing have you	15
Road bed and track.	
Number of track sections in Michigan	3
Number of track sections in Michigan Average number of men in each section gang	6
ROLLING STOCK.	
P	resent esti-
Number of locomotives of more than 30 tons weight, exclusive of tender	\$89,000 00 7,600 00
Total 11	\$96,600 00
Number of passenger cars—8-wheel, including official cars	\$475 00 950 00 6,900 00 9,975 00 85,500 00 665 00 8,450 00
Total 467	\$112,915 00
Are your freight cars being equipped with automatic couplers as required by act No. 147, so of 1885, as amended by act No. 38, session laws of 1887?  No, cars always had safety couplers.  What pattern or patterns have you adopted for use?  Childs; cars couple after deadwoods meet; no danger to men making or unmaking trains.	
Omine, cars couple artor deadwoods meet, no danger to men maxing or dimaxing trains.	
MILEAGE, TRAFFIC, ETC.	
Train mileage.	Michigan.
Miles run by freight trains during the year	54,000
Freight traffic.—Road all in State of Michigan.	
Tons. Miles.	Rate.
Total tons of freight carried, earning revenue 1,459,622 Total mileage of through freight 54,000 Total freight mileage or tons carried one mile 10,947;165 Average receipts ton per mile, for all freight	0.07
-	

#### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

#### Company's material excluded.

	Freight originating on this road. Whole tons.	Freight re- ceived from connecting roads and other carriers. Whole tons.	Total freight tonnage.	
Commodity.			Whole tons.	Per cent.
Products of agriculture : Grain Hay	408 130			
Products of mines: Anthracite coal Bituminous coal Coke Ores, rock Stone, sand and other like articles.	115.915			
Products of forest: LumberShingles	24,876 44			
Manufactures: Petroleum and other oils	1,251 130			
Miscellaneous: Other commodities not mentioned above	561			
Total tonnage	1,459,622			

STATE OF MICHIGAN, } ss.

Will A. Childs, superintendent, and James N. Cox, secretary, of the Hecla & Torch Lake Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF B. B.]

Signed,

WILL A. CHILDS, JAMES N. COX.

Subscribed and sworn to before me this 20th day of February, A. D. 1897.

[L. S.]

L. W. KILLMAR,

Notary Public, in and for Houghton Co.

#### OF THE

# LAKE SUPERIOR & ISHPEMING RAILWAY COMPANY.

For the year ending December \$1, 1896.

[Filed May 22, 1897.]

#### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, WM. G. MATHER, Cleveland, Ohio. Vice President, JAS. LAUGHLIN, JE., Pittsburg, Pa. Secretary, J. H. HOYT, Cleveland, Ohio. Auditor, J. C. URICH, Marquette, Mich. Treasurer, W. G. POLLOCK, Cleveland, Ohio. General Manager, JOHN M. EGAN, Marquette, Mich. Attorney, GEO. HAYDEN, Ishpeming, Mich.

# DIRECTORS.

WM. G. MATHER, Cleveland, Ohio.
JAS. LAUGHLIN, JR., Pittsburg, Pa.
J. H. WADE, New York, N. Y.
B. F. JONES, Jz., Pittsburg, Pa.
W. G. POLLOCK, Cleveland, Ohio.
J. H. HOYT, Cleveland, Ohio.
GEO. HAYDEN, Ishpeming, Mich.

#### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: February 24, 1893; (dated February 17, 1893; amendment dated September 12, 1895.)

Number of stockholders at date of last election: 10.

Number of stockholders in Michigan at same date: 2.

Amount of full paid stock held in Michigan at same date: 1,251 shares—\$125,100.00.

Date of annual meeting of stockholders: Second Tuesday in February.

Fiscal year of company ends: December 31.

General offices of the company are located at business office at Marquette. Principal office, Ishpeming.

# | GENERAL EXHIBIT. | Debit. | Credit. | \$80,900 25 | Total expenses, including taxes | \$81,889 30 | Net income | \$1,273 70 | Interest on unfunded debt | \$7,273 70 | Balance for the year | \$6,407 66 | Balance forward to next year | \$85,407 66 |

# ANALYSIS OF CAPITAL STOCK.

Amount authorized by charter or articles of association as amended.	\$1,000,000 00
Number of shares issued 10,000 Amount paid in on common 10,000	
Total amount paid in, as per books of the company	\$1,000,000 00
Paid in per mile of road owned by company, 20% miles	48,780 49

# ANALYSIS OF DERT ACCOUNTS.

#### FUNDED DEBT.

Class, character and date of issue.	Rate of Interest.	When due.	Where payable.	Amount outstanding.
Gold bonds, January 1, 1896	6%	January 1, 1928.	New York City	\$1,200,000 00

#### UNFUNDED DEBT.

For what incurred.	Is the same to be funded or how liquidated?	Amount.
For equipment. For real estate For miscellaneous.	To be paid in cash.	\$184,179 75 8,755 00 16,519 71
Total unfunded debt		\$209,454 46

#### RECAPITULATION.

Total funded debt	\$1,200,000 00 209,454 46
Total debt liabilities	\$1,409,454 46
Amount of debt liabilities per mile of road, 20¼ miles	68,753 88 2,409,454 46
Stock and debt per mile of road, 20½ miles	117,534 86

# GENERAL BALANCE SHEET.-Dr.

Construction account Equipment account	\$925,479 04 288,557 56
Other investments: . Rights of way, terminal lands, contracts and labor	1,000,000 00 \$2,214,036 60
Cash items:	
·	\$2,224,482 25
Other assets:	
Materials and supplies	30,249 87 161,130 00

# LAKE SUPERIOR & ISHPEMING RAILWAY COMPANY. 551

# GENERAL BALANCE SHEET.-CR.

Unfunded debt: Notes payable. Notes payable. Notes payable. Notes payable. Signed as eccounts. Profit and loss or income accounts.  COST OF ROAD AND EQUIPMENT.  Total cost for construction and equipment of road and branches built by company.  Total expended for construction and equipment of road and branches built by company.  Total expended for construction and equipment.  Arerage cost per mile of road (not including sidings), 20.5 miles.  CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.  MAIN LINE.  Extensions and new sidings. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. New Indiangs. Total charges to property account as above.  2, 214,036 60  ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.  Main line and branches: Local traffic. Total traffic. Total traffic. Total traffic. Total traffic. Total traffic.  Total reight department earnings FREIGHT EARNINGS.  Total transportation earnings per mile of road. Total earnings per mile of road.  Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total earnings per mile of road. Total income from all sources.  830,900 25 Total income from all sources.		
Notes payable	Capital stock         \$1,000,000 00           Funded debt         1,200,000 00	\$2,200,000 00
215,862 12   12   13   13   13   13   13   13		
215,862 12   12   13   13   13   13   13   13	Notes payable \$192,984 75	
COST OF ROAD AND EQUIPMENT.   Total cost for construction and equipment of road and branches built by comp 2my.	Vouchers and accounts	215,862 12
COST OF ROAD AND EQUIPMENT.    Total cost for construction and equipment of road and branches built by company.	Total	
Total cost for construction and equipment of road and branches built by compusy.	10001	
Total expended for construction and equipment	COST OF BOAD AND EQUIPMENT.	
Total expended for construction and equipment	Total cost for construction and equipment of road and branches built by compan	w.
CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.		-
### MAIN LINE.    Extensions and new sidings	Total expended for construction and equipment.  Average cost per mile of road (not including sidings), 20.5 miles.  Proportion of cost for Michigan: All.	\$2,214,086 60 108,001 79
### MAIN LINE.    Extensions and new sidings	CHADGES AND CREDITS TO RECORDED TO DITRING THE VEAR	
Rxtensions and new sidings	,	
New buildings.       7,835 31         Machinery and tools       27 12         New locomotives       110,535 2         New cars.       177,972 30         Total.       \$2,214,036 60         Total charges to property account as above.       2,214,036 60         Net addition to property account.       2,214,036 60         ANALYSIS OF EABNINGS.—ROAD ALL IN STATE OF MICHIGAN.         Main line and branches:       267 79         Through traffic       80,332 46         Total traffic       \$30,900 25         Total freight department earnings       \$30,900 25         Per train mile       26 15         Per mile of road       3,946 35         Total transportation earnings, entire line       380,900 25         Transportation earnings per mile of road       3,946 35         Total earnings from operation of road       3,946 35         Total earnings per train mile       6 15         Total earnings per mile of road       3,946 35         Total transportation of train mile       6 15         Total income from all sources       \$3,946 35         Total income from all sources       \$3,946 35		e1 017 E28 90
Machinery and tools	New buildings	7.895.81
New locomotives	New fences	18 81 27 12
Total charges to property account as above   2,214,036 60	New locomotives	110,585 26
Total charges to property account   2,214,036 60	New cara	177,972 80
ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MICHIGAN.    Main line and branches:	Total	\$2,214,086 60
Main line and branches	Total charges to property account as above	2,214,036 60 2,214,036 60
Main line and branches:       \$67 79         Local traffic       \$0,832 46         Through traffic       \$80,900 25         Total traffic       \$80,900 25         Per train mile       \$6 15         Per mile of road       \$80,900 25         Total transportation earnings, entire line       \$80,900 25         Transportation earnings per mile of road       \$80,900 25         Transportation earnings per train mile       6 15         Total earnings from operation of road       \$80,900 25         Total earnings per mile of road       \$946 35         Total earnings per mile of road       \$946 35         Total earnings per train mile       6 15         Proportion of taxable earnings for Michigan       \$0,900 25         Total taxable earnings per mile of road in Michigan       \$0,900 25         Total income from all sources       \$80,900 25	ANALYSIS OF EARNINGS.—BOAD ALL IN STATE OF MICHIGAN.	
Local traffic		
Total traffic         \$80,900 25           Total freight department earnings         \$80,900 25           Per train mile         \$6 15           Per mile of road         3,946 35           Total transportation earnings per mile of road         3,946 85           Transportation earnings per train mile         6 15           Total earnings from operation of road         3,946 35           Total earnings per mile of road         3,946 35           Total earnings per train mile         6 15           Proportion of taxable earnings for Michigan         80,900 25           Total taxable earnings per mile of road in Michigan         3,946 35           Total income from all sources         \$80,900 25		
Total freight department earnings   \$80,900 25	Through traffic 80,832 46	
Per train mile         \$6 15           Per mile of road         \$80,900 25           Transportation earnings per mile of road.         \$9,900 25           Transportation earnings per train mile.         6 15           Total earnings from operation of road.         \$9,900 25           Total earnings per mile of road.         3,946 35           Total earnings per mile of road.         3,946 35           Total earnings per train mile.         6 15           Proportion of taxable earnings for Michigan.         80,900 25           Total taxable earnings per mile of road in Michigan.         \$9,900 25           Total income from all sources.         \$80,900 25	Total traffic	\$80,900 25
Per mile of road       3,948 35         Total transportation earnings per mile of road       3,946 35         Transportation earnings per train mile       6 15         Total earnings from operation of road       \$80,900 25         Total earnings per mile of road       3,946 35         Total earnings per train mile       6 15         Proportion of taxable earnings for Michigan       80,900 25         Total taxable earnings per mile of road in Michigan       3,946 85         Total income from all sources       \$80,900 25	Total freight department earnings	\$80,900 25
Transportation earnings per mile of road.       3,946 85         Transportation earnings per train mile.       6 15         Total earnings from operation of road.       3,946 35         Total earnings per mile of road.       3,946 35         Total earnings per train mile.       6 15         Proportion of taxable earnings for Michigan       80,900 25         Total taxable earnings per mile of road in Michigan       3,946 35         Total income from all sources       \$80,900 25	Per train mile	
Transportation earnings per train mile.         6 15           Total earnings from operation of road.         \$80,900 25           Total earnings per mile of road.         3,948 35           Total earnings per train mile.         6 15           Proportion of taxable earnings for Michigan.         80,900 25           Total taxable earnings per mile of road in Michigan.         3,946 85           Total income from all sources.         \$80,900 25	Total transportation earnings, entire line	\$80,900 25
Total earnings per mile of road   3,948 35     Total earnings per train mile   6 15     Proportion of taxable earnings for Michigan   80,900 25     Total taxable earnings per mile of road in Michigan   3,946 35     Total income from all sources   \$80,900 25	Transportation earnings per mile of road	
Total earnings per mile of road   3,948 35     Total earnings per train mile   6 15     Proportion of taxable earnings for Michigan   80,900 25     Total taxable earnings per mile of road in Michigan   3,946 35     Total income from all sources   \$80,900 25	Total earnings from operation of road	\$80,900 25
Total income from all sources \$80,900 25	Total earnings per mile of road	6 15
	Proportion of taxable earnings for Michigan  Total taxable earnings per mile of road in Michigan	80,900 25
Proportion of income for Michigan 80,900 25	Total income from all sources	\$80,900 <b>25</b>
	Proportion of income for Michigan	80,900 25

# ANALYSIS OF EXPENSES.

# MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway	\$8,410 72 838 37 50 55 179 08 49 63 21 75
Total	\$4,050 10
MAINTENANCE OF EQUIPMENT.	
•	\$180 00
Superintendence.  Repairs and renewals of locomotives.  Repairs and renewals of freight cars Stationery and printing.  Other expenses.	469 64 834 06 4 00 10 00
Total	\$1,497 70
CONDUCTING TEAMSPORTATION.	
Superintendence Engine and roundhouse men. Fuel for locomotives.  Water supply for locomotives.  Oil, tallow and waste for locomotives.  Train service.  Train supplies and expenses.  Switchmen, flagmen and watchmen. Telegraph expenses. Station service.  Station service.  Station supplies.  Loss and damage.  Injuries to persons.  Clearing wrecks.  Rent of buildings and other property.  Stationery and printing.  Other expenses.	\$4,755 44 2,689 09 3,961 06 283 41 105 49 845 23 347 23 1,695 65 878 00 5,875 24 801 84 179 14 488 48 47 30 165 00 232 15 84 51
	<b>81</b> 000 00
Salaries of general officers Salaries of clerks and attendants General office expenses and supplies Insurance Stationery and printing (general offices) Other expenses	\$1,000 00 392 00 827 44 632 50 65 82 9 42
Total	\$2,927 18
RECAPITULATION OF EXPENSES. Per cent of	
Maintenance of way and structures	\$4,050 10
Maintenance of way and structures     12.70       Maintenance of equipment     4.70       Conducting transportation     73.42       General expenses, including taxes     9.18	1,497 70 23,414 32 2,927 18
Total operating expenses and taxes. 100.00	\$31,889 30
Operating expenses and taxes per mile of road.  Operating expenses and taxes per train mile run, for trains, earning revenue, 13,150 miles.  Proportion of operating expenses and taxes for Michigan—Main line	\$1,555 57 2 42 31,889 30
Total proportion of expenses for Michigan	\$31,889 30
Percentage of expenses to earnings 39.42  Net earnings per mile of road	2,890 78 8 73

# DESCRIPTION OF BOAD.

Date when the road was opened for use between its present termini: From Presque Isle to Ishpeming, August 12, 1896.

MAIN LINE.	
Miles.	Miles. 20.50
In Michigan, from Presque Isle to Ishpeming	
Total length completed	20.50
Total length of road belonging to this company	20.50 6.35
Aggregate length of tracks in Michigan belonging to this company, computed as single track	26.85
Gauge of track, 4 feet 8% inches.	
If north of parallel 44 of latitude? Yes.	
Give date road commenced to be built: December 1, 1895.	
Give date road completed: August 12, 1896.	
Give date road commenced to be operated: August 12, 1896.	
Where built from and to: Presque Isle (Marquette), to Ishpeming.	
Give exact number of miles: 20½ miles.	
Number of bridges and trestles in Michigan.	Aggregate
Number. I	ength, feet.
Wooden bridges	1,898 3,304 2,412
Total	7,609
Crossings.—Railroad and highway.	
What railroads cross your road at grade in this State, and at what locality? Marquette & Presque Isle Street R. R. at Presque Isle. South Jackson mine track of C. & N. W. R'y at Negaunee.	
What railroads cross your road either over or under your grade in this State, and where?	
Under: D., S. S. & A. R. R. at Bagdad, Negaunee and Morgan Furnace. C. & N. W. R. R. at Negaunee.	
Number of crossings of highways at grade in this State  Number of crossings of highways at grade in this State at which there are gates or flagmen Number of crossings of highways over or under railroad: under	9 1 8
Are your frogs and guard rails blocked as required by act 174, session laws of 1883† Yes.	
How are they treated? Blocked with wood. Stations.	
Number of stations on whole lines.	8
$Employ\'es.$	
Number of persons regularly employed on all roads operated by company, including officials	85
Same in Michigan	81

Classify your employée as per follo	•			Number. 5
Conductors Engineers				5
Firemen				5 5 80
Laborers				80
Shopmen				5 15 20
Yardmen Others				20
Omers				===
	REPAIRS AND REMEV	YALS.		
	Fencing in Michig	an.		
How many miles of fencing have y None.	out			
Give the number of miles required and the counties in which need All in Marquette county	led:	• •	•	84
Total miles required				34
	•			
	Road bed and tra	ck.		
Number of track sections in Michig	ran			3 7
Average number of men in each sec	tion gang			5
Number of new ties put in whole li	ne during the year (road	just completed	1)	54,120
Average length of sections in michigal Average length of sections (miles). Average number of men in each sec Number of new ties put in whole li Number of new ties put in track in Average number of new ties per mi New rails put in track.	Michigan	·		54,120
Average number of new ties per mi	le of road	<del>-</del>		2,640
Steel, tons 2,400; miles, 201/4.				
Total miles of track laid with new	rails		2014	
New bridges built during the year	: Number 15.			
Location.	Kind.	Material.	Month built.	Feet in length.
Between Presque Isle & Ishpeming Between Presque Isle & Ishpeming	Pile trestle Pile trestle, steel span.	Wood Steel	June to Aug.,'96 June to Aug.,'96	1,893 3,304
	ROLLING STO	CK.		resent esti-
Number of locomotives of more th	an 30 tons weight, exclus	ive of tender		\$99,639 24
	• .	_		
Total			11	\$99,639 24
N				*****
Number of platform cars			20 400	\$6,596 19 152,486 91
Number of conductors' way cars4				
				274 77
Total				\$161,291 07
Number of locomotives equipped v Number of freight cars equipped v	vith power brakes			420
What patterns of nower brakes has	ve you in use, and numbe	r of locomotive	es and cars with a	ach?
What patterns of power brakes has All engines and cars equipped wi	th Westinghouse automa	tic air brakes.		

Are your freight cars being equipped with automatic couplers as required by act No. 147, session laws of 1885, as amended by act No. 88, session laws of 1887?

All are now equipped as required by law.

What pattern or patterns have you adopted for use? Tower.

How are your passenger cars heated?

Have no passenger cars.

### MILEAGE, TRAFFIC, ETC.

Train mileage.			In Michigan.
Miles run by freight trains during the year			
Total mileage of trains earning revenue	· · · · · · · · · · · · · · · · · · ·		18,150
Freight traffic.—Road all in State of 1	lichigan.		
Number of tons of through freight carried, earning revenue Number of tons of local freight carried, earning revenue	Tons. 299,854 202	Miles	Rate.
Total tons of freight carried, earning revenue	299,556		
Total mileage of through freight		6,138,76 2,985 6,136,75	3
Average ton haul for through freight		20½ 14.8 20.48	i
Average amount received for each ton haul  Average receipts ton per mile, for through freight  Average receipts ton per mile, for local freight  Average receipts ton per mile, for all freight  Estimated cost of carrying one ton one mile			. 02.3 . 01.8

### FREIGHT TRAFFIC MOVEMENT.-ROAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

<u>.</u>	Freight originating	. roads and	Total freight tonnage.		
Commodity.	on this road.		Whole tons.	Per cent.	
Products of mines: Bituminous coal	290,813	8,528	8,523 290,818	2.84 97.08	
Products of forest: Lumber	202		202	0.07	
Merchandise		18	18	0.01	
Total tonnage	291,015	8,541	299,556	100.00	

### ADDITIONAL QUESTIONS.

### Telegraph.

Number of miles of telegraph on your road, and to whom does it belong? 23 miles; belongs to this company (Lake Superior & Ishpeming Ry. Co.)

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### INJURED.

April 8, A. J. Dube, axeman engineering corps, Presque Isle. Got in way of pile driver; his own fault. August 15, John Zekra, laborer, Presque Isle. Rail slipped; accidental. August 20, Philip Miller, laborer, Presque Isle. Attempting to lower chute unaided; his own carelessness. September 30, John McGovern, bridge carpenter, Bagdad. Did not notice approaching train; his own carelessness. September 28, David Maki, laborer, Presque Isle. Ran hook into his foot; carelessness.

### MICHIGAN RAILROAD RETURNS, 1896.

### TABULAR STATEMENT OF ACCIDENTS IN MICHIGAN.

Causes of accident.		Killed.			Injured.	
Causes of accident.	Passengers.	Employés.	Others.	Passengers.	Employés.	Others.
Miscellaneous					5	
Total					5	

### SUMMARY OF ACCIDENTS IN MICHIGAN.

Number of persons injured during the year	5. 1 4

### CLASSIFICATION OF EMPLOYÉS.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Laborers		4 1	4
Total		5	5.

STATE OF OHIO, COUNTY OF CUYAHOGA, \ 88.

Wm. G. Mather, president, and James H. Hoyt, secretary, of the Lake Superior & Ishpeming Bailway Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

WM. G. MATHER, JAMES H. HOYT.

Subscribed and sworn to before me this 20th day of May, A. D. 1897.

[L. 8]

GUSTAV VON DEN STEINEN,
Notary Public.

### ANNUAL REPORT

OF THE

### LEWISTON & SOUTHEASTERN RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed April 19, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, D. M. KNEELAND, Lewiston, Mich. Vice President, HENRY MANTZ, Lewiston, Mich. Secretary, HENRY BAUMAN, Lewiston, Mich. Treasurer, HENRY BAUMAN, Lewiston, Mich. General Manager, HENRY MANTZ, Lewiston, Mich. General Superintendent, HENRY MANTZ, Lewiston, Mich. Chief Engineer, HENRY BAUMAN, Lewiston, Mich. General Freight Agent, CHAS. A. BIGELOW, Detroit, Mich.

### DIRECTORS.

D. M. KNEELAND, Lewiston, Mich.
H. A. BAUMAN, Lewiston, Mich.
HENRY MANTZ, Lewiston, Mich.
WILLIAM MANTZ, Lewiston, Mich.
BYRON B. FARRIES, Lewiston, Mich.
HERMAN LUNDENE, Lewiston, Mich.
GRO. L. ALEXANDER, Grayling, Mich.
Terms expire May 26, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: May 28, 1896. Number of stockholders at date of last election: 8. Number of stockholders in Michigan at same date: 8. Amount of full paid stock held in Michigan at same date: 800,000. Date of annual meeting of stockholders: May 26, 1896. Fiscal year of company ends December 31. General offices of the company are located at Lewiston, Mich.

GENERAL EXHIBIT.	Debit.	Credit.
Total earnings from operation		\$2.884 70
Total expenses, including taxes	\$7,448 78	42,002 10
Net deficit	\$5,064 08	
Balance for the year.	5,064 03	
ANALYSIS OF CAPITAL STOCK.		
Amount authorized by charter or articles of association.  Par value of shares \$100  Amount paid in on common	\$60,000 00	\$60,000 00
Total amount paid in, as per books of the company		60,000 00
Paid in per mile of road owned by company.		6,000 00

### RECAPITULATION.

Total debt liabilities.  Stock and debt per mile of road, 10 miles	\$60,000 00 6,000 00	0
GENERAL BALANCE SHEETDr.		
Construction account. \$20,300 97		
Equipment account 4,480 85 Other assets:	\$24,781 82	3
Sinking funds	35,935 97	ī
Total	<b>96</b> 0,717 <b>7</b> 9	•
GENERAL BALANCE SHEET.—Cr.		•
Capital stock Profit and loss or income accounts.	\$60,000 00 717 79	).
Total	\$60,717 79	-
=		:
COST OF ROAD AND EQUIPMENT.		
Total cost for construction and equipment of road and branches built by company.		
Total expended for construction and equipment	\$24,781 82	2
Average cost per mile of road (not including sidings) 10 miles.  Proportion of cost for Michigan	2,478 18 24,781 82	}
Purchased by present company.  When purchased: May 28, 1896. Original cost to present company, of road and equipment Amount expended since purchase, account of construction Amount expended since purchase, account of equipment Total cost to date of report Average cost per mile of road (not including sidings), 10 miles Proportion of cost for Michigan	\$19,000 00 5,575 97 205 85 24,781 82 24,781 82 24,781 82	[ 5
ANALYSIS OF EARNINGSROAD ALL IN STATE OF MICHIGAN.		
FREIGHT HARNINGS.  Main line and branches:		
Through traffic \$2,384 70		
Total traffic \$2,884 70		
Total freight department earnings	\$2,384 70	į
Per train mile         \$0.61           Per mile of road         238.47		
Total transportation earnings, entire line	\$2,384 70	
Transportation earnings per mile of road	238 47 61	
Total	\$2,884 70	)
Total earnings per mile of road Total earnings per train mile	238 47 61	
Total earnings per train mile Proportion of taxable earnings for Michigan Total taxable earnings per mile of road in Michigan	2,384 70 288 47	!
Total income from all sources	\$2,384 70	)
Proportion of income for Michigan.	2,384 70	١.
•		

### ANALYSIS OF EXPENSES.

### MAINTENANCE OF WAY AND STRUCTURES.

		<b>.</b>
Repairs of roadway.		<b>\$4</b> ,818 57
Renewals of ties		549 <b>95</b> 507 <b>45</b>
Renewals of ties	· · · · · · · · · · · · · · · · · · ·	200 00
Total		\$5,575 97
MAINTENANCE OF EQUIPMENT.		
Repairs and renewals of locomotives.  Repairs and renewals of freight cars.		\$5 85 200 00
mepairs and renewals of freight oars		
Total		<b>\$205</b> 8 <b>5</b>
CONDUCTING TRANSPORTATION.	,	
Engine and roundhouse men		\$455 00
Fuel for locomotives		325 00
Oil, tallow and waste for locomotives		29 88
Fuel for locomotives Oil, tallow and waste for locomotives. Train service Switchmen, flagmen and watchmen		600 00 100 00
Total		\$1,509 88 
GENERAL EXPENSES.		
Other expenses		\$157 03
Total		\$157 03
4 V V V V V V V V V V V V V V V V V V V		
RECAPITULATION OF EXPENSES.	Per cent of	
•	expenses.	
Maintenance of way and structures	74.87	\$5,575 97
Maintenance of equipment	2.75	205 85
Conducting transportation General expenses, including taxes	20.27 2.11	1,509 88 157 03
Total operating expenses and taxes	100	\$7,448 78
Onerating expenses and taxes per mile of road		\$744 87
Operating expenses and taxes per mile of road	900 miles.	1 91
Proportion of operating expenses and taxes for Michigan:	100	
Main line	100	
Total proportion of expenses for Michigan		\$7,449 78
Percentage of expenses to earnings.	820.30	
:	<del></del>	
DESCRIPTION OF ROAD.		
DESCRIPTION OF ROAD.		
Date when the road was opened for use between its present termini: From Lewiston, Montmorency county, to forest terminus, Oscoda county, 1896	•	
MAIN LINE.		Miles.
In Michigan, from Lewiston to forest terminus		10
Total length completed.		10
Total length of branches owned by company in Michigan		8
Total length of road belonging to this company in Michigan		13
Aggregate length of tracks in Michigan belonging to this company, compute track	d as single	13
Gauge of track, 3 feet.	:	
If north of parallel 44 of latitude: Yes.		
Give date road commenced to be built:		
July 15, 1891.		

Give date road completed. December 15, 1891.

Give date road commenced to be operated:	
1891.	
Where built from and to: Lewiston to forest terminus.	
Give exact number of miles: 10 miles.	
Crossings.—Railroad and highway.	
Number of crossings of highways at grade in this State Number of crossings of highways over or under railroad—over	3
Stations.	
Number of stations on whole lines	2
Employés.	
Number of persons regularly employed on all roads operated by company, including officials	39
Classify your employes as per following list:	Number.
Brakemen Engineers	1 1
Firemen. Laborers	1 35
Yardmen	ž 1
Road bed and track.	
Number of track sections in Michigan.	.1
Average number of men in each section gang	10 6
Average lengths of sections, miles  Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road	10,109 10,109 1,010
New rails put in track: Steel, tons 24, about ½ mile.	
ROLLING STOCK. Pr	resent esti-
Number of locomotives of 20 to 30 tons weight, exclusive of tender	\$1,500 00 500 00
Total 2	\$2,000 00
Number of platform cars	\$2,250 00
	25 00
Total 81	\$2,275 00
MILEAGE, TRAFFIC, ETC.	
Train mileage.	
Miles run by freight trains during the year	Michigan. 3,900
Total mileage of trains earning revenue.	3,900
Total minese of freme certains totaline	=====
Freight traffic.—Road all in State of Michigan.	
Number of tons of through freight carried, earning revenue 11,218	Rate.
Total tons of freight carried, earning revenue	
Total mileage of through freight 10  Total freight mileage or tone carried one mile 112 190	
Total freight mileage or tons carried one mile	
Total freight mileage or tons carried one mile	
Total freight mileage or tons carried one mile	<b>an</b> 21 e
Total freight mileage or tons carried one mile	\$0 21.3 21.3 21.3 66.4

### FREIGHT TRAFFIC MOVEMENT.-BOAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

	Freight originating	Freight re- ceived from connecting	Total freight tonnage.	
Commodity.	on this road.		Whole tons.	Per cent.
Products of forest:	11,218		11,218	100.00

### REPORTS OF ACCIDENTS FOR MICHIGAN DURING THE YEAR 1896.

### THATTEND.

September 17, Fred Gernish, fireman, Gust Nelson, laborer, at end of road, or about 10 miles from Lewiston. Axle of car breaking.

### STATEMENT OF ACCIDENTS IN MICHIGAN.

miscentaneous, employes injured	
SUMMARY OF ACCIDENTS IN MICHIGAN.	
	_
Number of persons injured during the year	8
Sumber of persons injured during the year	1

### CLASSIFICATION OF EMPLOYES.

### KILLED OR INJURED IN MICHIGAN.

	Killed.	Injured.	Total.
Firemen		1 1	
Total		2	

STATE OF MICHIGAN, SE. COUNTY OF MONTHORBUCY,

D. M. Kneeland, president, and H. A. Baumau, secretary, of the Lewiston & Southeastern Railroad Company, being duly sworn, depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF B. R.]

Signed,

D. M. KNEELAND, President.

Subscribed and sworn to before me this 16th day of April, A. D. 1897.

H. A. BAUMAN, Secretary.

[L. 8.]

C. B. DRAKE, Notary Public.

### ANNUAL REPORT

OF THE

### MANISTEE & LUTHER RAILROAD COMPANY,

For the year ending December \$1, 1886.

[Filed March 12, 1897.]

### OFFICERS OF THE COMPANY, WITH LOCATION OF OFFICES.

President, B. G. PETERS, Eastlake, Mich. Vice President, L. H. WITHEY, Grand Rapids, Mich. Secretary, H. W. CAREY, Eastlake, Mich. Treasurer, H. W. CAREY, Eastlake, Mich. General Manager, R. G. PETERS, Eastlake, Mich. Assistant General Manager, H. W. CAREY, Eastlake, Mich. Attorney, A. J. DOVEL, Manistee, Mich.

### DIRECTORS.

B. G. PETBES, Eastlake, Mich.
L. H. WITHEY, Grand Rapids, Mich.
H. W. CAREY, Eastlake, Mich.
A. J. DOVEL, Manistee, Mich.
G. M. BURR, Manistee, Mich.
Terms expire April 2, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: March 26, 1886. Number of stockholders at date of last election: 7. Number of stockholders in Michigan at same date: 7. Amount of full paid stock held in Michigan at same date: \$300,000. Date of annual meeting of stockholders: First Tuesday in April. Fiscal year of company ends December 31. General offices of the company are located at Eastlake, Mich.

# | Total earnings from operation | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Side | Sid

\$97,897 56

Balance forward to next year\_\_\_\_\_

GENERAL EXHIBIT.

### ANAL VOIG OF CARITAL STOCK

<b>A</b>	NALYSIS OF CAPITAL STOCK.	
Amount authorised by charter or an Par value of shares. Number of shares issued		\$400,000 00
Amount paid in on common		000 000 00
• · •	ok of the company	800,000 00
raid in per mile of road owned by c	ompany	4,761 90
<b>A</b> :	NALYSIS OF DEBT ACCOUNTS.	
	UNFUNDED DEBT.	
For what incurred.	Is the same to be funded or how liquidated.	Amount.
For current balances		\$381 09
	RECAPITULATION.	
		\$381 09
		\$381 09
Amount of debt liabilities per mile. Total amount of stock and debt Stock and debt per mile of road, 63	of road, 63 miles	800,881 09 4,767 99
QI	NERAL BALANCE SHEET.—Dr.	
Construction account	\$294,474 67 71,159 22	
Cash items:		\$365,688 89
	\$1,680 69	1,680 69
Other assets:	nd individuals	30,964 07
<del>-</del>	nu individuals	\$398,278 65
4.000		
GE	ENERAL BALANCE SHEET.—Cr.	-
Capital stock	•••••••••••••••••	\$800,000 00
Unfunded debt:		
Other liabilities Profit and loss or income account	i8	881 09 97,897 56
Total		\$898,278 65
co	ST OF ROAD AND EQUIPMENT.	
Total cost for constructio	n and equipment of road and branches built by company	y•
Total expended for construction an Average cost per mile of road (not i	d equipment	\$865,638 89 5,808 61
	Purchased by present company.	
Amount expended since purchase, a Amount expended since purchase, a Total cost to date of report	equipped by this company. If road and equipment	\$365,638 89 294,474 67 71,159 22 365,638 59 5,803 71

### CHARGES AND CREDITS TO PROPERTY DURING THE YEAR.

### MAIN LINE.

Extensions and new sidings Machinery and tools	\$10,110 48 82 15
Total charges to property account as above	\$10,192 63
Net addition to property account.	10,192 68
ANALYSIS OF EARNINGS.—ROAD ALL IN STATE OF MICHIGAN.	
PASSENGER BARNINGS.  Main line and branches:	
Local fares	
Total passenger department earnings	\$197 00
Per mile of road	
PREIGHT BARNINGS.	
Main line and branches: Local traffic	
Total freight department earnings	51,196 13
Per mile of road	
Total transportation earnings, entire line	\$51,892 18
Transportation earnings per mile of road	51,392 13
Total earnings per mile of road. 315-74 Proportion of taxable earnings for Michigan 315-74 Taxable earnings per mile of road in Michigan 315-74	51,392 13
Total income from all sources	\$51,392 18
ANALYSIS OF EXPENSES.	
MAINTENANCE OF WAY AND STRUCTURES.	
Repairs of roadway	\$9,502 55 832 39 98 00
Total	\$9,982 94
MAINTENANCE OF EQUIPMENT,	
Repairs and renewals of locomotives.  Bepairs and renewals of freight cars	\$4,691 85 4,291 58
Total	\$8,983 88
CONDUCTING TRANSPORTATION.	

### GENERAL EXPENSES.

<del></del>	
Salaries of general officers	\$1,000 00
Salaries of general officers	1,000 00
Insurance	103 50
Stationery and printing (general offices)	88 20 15 40
Taxes	1,496 12
Total	\$8,658 22
RECAPITULATION OF EXPENSES.	
Maintenance of way and structures	\$9,982 94
Maintenance of equipment.	8,988 88 14,396 88
Conducting transportation	8,658 22
Total operating expenses and taxes.	
Total proportion of expenses for Michigan	86,966 42
•	
DESCRIPTION OF ROAD.	
Date when the road was opened for use between its present termini:	
From Bastlake, Mich., to Sec. 4, 18, 12, June, 1886.	
· MAIN LINE.	Wile-
MAIN LINE.  Miles.  In Michigan, from Eastlake to Sec. 4, 18, 12	
In Michigan, from Eastlake to Sec. 4, 18, 12.	
In Michigan, from Eastlake to Sec. 4, 18, 12	
In Michigan, from Eastlake to Sec. 4, 18, 12.	45
In Michigan, from Eastlake to Sec. 4, 18, 12	45
BRANCHES.   BRANCHES.	45
BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.	45
BRANCHES.  BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 8 feet.	45
In Michigan, from Eastlake to Sec. 4, 18, 12  BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 8 feet.  Number of bridges and trestles in Michigan.	63 68 Aggregate
In Michigan, from Eastlake to Sec. 4, 18, 12  BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 8 feet.  Number of bridges and trestles in Michigan.  Number.	45 63 63 Aggregate length, feet.
BRANCHES.  BRANCHES.  BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 3 feet.  Number of bridges and trestles in Michigan.  Number.  Wooden bridges.	Aggregate length, feet.
BRANCHES.  BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 3 feet.  Number of bridges and trestles in Michigan.  Number.  Wooden bridges.  Wooden trestles.	Aggregate length, feet.
BRANCHES.  BRANCHES.  BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 3 feet.  Number of bridges and trestles in Michigan.  Number.  Wooden bridges.	Aggregate length, feet.
BRANCHES.  BRANCHES.  From main line to forest terminals.  Total length of road owned by company in Michigan.  Aggregate length of tracks in Michigan belonging to this company, computed as single track.  Gauge of track, 3 feet.  Number of bridges and trestles in Michigan.  Number.  Wooden bridges.  Wooden trestles.	Aggregate length, feet.

What railroads cross your road at grade in this State, and at what locality? F. & P. M. R. R. at Eastlake. G. R. & I. R. R. at Careyville. C. & W. M. B. R. at Peters.

At what crossings are interlocking and derailing switches in operation? F. & P. M. R. R. C. & W. M. R. R.

What pattern or patterns have you adopted? Second-class interlocker.

### REPAIRS AND BENEWALS.

### Fencing in Michigan.

How many miles of fencing have you?

Give the number of miles required to complete fence both sides of your track in Michigan

### Road bed and track.

Road bed and track.		
Number of track sections in Michigan		
Average lengths of sections, miles		15
Average number of men in each section gang		7,000
Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan	• • • • • • • • • • • • • • • • • • • •	7,000
Average number of new ties per mile of road.	11	1,000
DOLLING GEOGR		
ROLLING STOCK.		Present esti-
	Number.	mated value.
Number of locomotives of more than 30 tons weight, exclusive of tender	8	
Number of locomotives of 10 to 20 tons weight, exclusive of tender	8	9,000 00
Total		#10 F00 00
Total		\$19,500 00
Number of passenger cars—& wheel, including official cars	1	\$1,500 00
Number of box freight cars	3	450 00
Number of passenger cars—8-wheel, including official cars. Number of box freight cars. Number of platform cars. Number of conductors' way cars.	10	
Other cars	1 281	46,200 00
Total	243	<b>\$69,775 00</b>
		====
Are your freight cars being equipped with automatic couplers as required by of 1885, as amended by not No. 38, session laws of 1887? Regular logging car coupling.	act No. 147,	session laws
How are your passenger cars heated? Stoves.		
SW168.		
MILEAGE TRAFFIC, ETC.		
Description Appelle - Dond -11 in Chair of Michigan		
Passenger traffic.—Road all in State of Michigan.		
Numbers.	Miles	Rate.
Number of local passengers carried, earning revenue		
Number of local passengers carried, earning revenue		
Total number of passengers carried, earning revenue \$28		
		<del></del>
Total number of passengers carried, earning revenue \$28	20	
Total number of passengers carried, earning revenue		
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		. \$0.60
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		. 20 60
Total number of passengers carried, earning revenue		\$0 60 08 08
Total number of passengers carried, earning revenue		\$0 60 08 08 
Total number of passengers carried, earning revenue		\$0 60 08 08 
Total number of passengers carried, earning revenue		\$0 60 08 08 
Total number of passengers carried, earning revenue		\$0 60 08 08 
Total number of passengers carried, earning revenue		\$1 00 1 00 1 00 0 15
Total number of passengers carried, earning revenue		\$1 00 1 00 1 00 1 00 0 15
Total number of passengers carried, earning revenue		\$1 00 1 00 1 00 1 00 0 15
Total number of passengers carried, earning revenue		\$1 00 1 00 1 00 1 00 1 05
Total number of passengers carried, earning revenue		\$1 00 1 00 1 00 0 15
Total number of passengers carried, earning revenue		\$1 00 1 00 1 00 1 00 1 5
Total number of passengers carried, earning revenue	MICHIGAN	\$1 00 1 00 0 15

Telephone.

Number of miles of telephone on your road, and to whom does it belong? 35 miles.

STATE OF MICHIGAN, SS.

Henry W. Carey, secretary and treasurer, of the Manistee & Luther Railroad Company, being duly sworn, deposes and says that he has caused the foregoing statements to be prepared by the proper officers and agents of this company and having carefully examined the same, declares them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of his knowledge and belief.

[L. S. of R. R.]

Signed

HENRY W. CAREY.

Subscribed and sworn to before me this 9th day of March, A. D. 1897.

[L. S.]

RAYMOND B. GILLETTE, Notary Public.

### ANNUAL REPORT

### OF THE

### QUINCY & TORCH LAKE RAILROAD COMPANY,

For the year ending December \$1, 1896.

[Filed March 22, 1897.]

### OFFICERS OF THE COMPANY WITH LOCATION OF OFFICES.

President, THOS. F. MASON, New York City.
Vice President, S. B. HARRIS, Hancock, Mich.
Secretary, Auditor and Treasurer:
E. D. JOHNSON, Hancock, Mich.
General Manager, S. B. HABRIS, Hancock, Mich.
Chief Engineer, J. L. HARRIS, Hancock, Mich.
Attorney, T. B. DUNSTAN, Hancock, Mich.

### DIRECTORS.

THOS. F. MASON, New York City.
S. B. HARRIS, HAROOCK, Mich.
JAMES ROSS, HAROOCK, Mich.
THOS. WHITTLE, HAROOCK, Mich.
GEO. S. NORTH, HAROOCK, Mich.
B. D. JOHNSON, HAROOCK, Mich.
T. B. DUNSTAN, HAROOCK, Mich.
Terms expire June 19, 1897.

### STOCKHOLDERS, STOCK AND GENERAL OFFICES.

When chartered or articles of association filed: June 29, 1888.

Number of stockholders at date of last election: 7.

Number of stockholders in Michigan at same date: 6.

Amount of full paid stock held in Michigan at same date. \$600.

Date of annual meeting of stockholders: Third Monday in June.

Flical year of company ends: December 31.

General offices of the company are located at Hancock, Mich.

GENERAL EXHIBIT.  Debit  Total earnings from operation	
Total expenses, including taxes 228,446	•
Balance (profit and loss) last year	\$12,992 21
Balance forward to next year.	12,992 21

\$50,000 00 100,000 00

### ANALYSIS OF CAPITAL STOCK.

Amount authorised by charter or articles of association.  Par value of shares	\$50,000 00
Total amount paid in, as per books of the company	50,000 00
Paid in per mile of road owned by company, 6 miles	8,338 34

### ANALYSIS OF DEBT ACCOUNTS.

### FUNDED DEBT.

Class, character and date of issue.	Rate of interest.	When due.	Where payable.	Amount outstanding.
100 bonds, \$1,000 each	6%	1905		\$100,000 00

### UNFUNDED DEBT.

For what insurred.	Is the same to be funded or how liquidated?	Amount.
For construction		\$65,921 22

### RECAPITULATION.

Total funded debt	\$100,000 00 65,921 22
Total debt liabilities	\$165,921 22
Amount of debt liabilities per mile of road, & miles	27,658 54 215,921 22 35,986 85

### GENERAL BALANCE SHEET.-Dr.

Equipment account	\$228,913 78
Total	\$228,918 78

### GENERAL BALANCE SHEET.—CR.

Unfunded debt: Vouchers and accounts	65,921 5 <sup>2</sup> 12,992 21
m-4-3	4999 019 79

### COST OF ROAD AND EQUIPMENT.

Total cost for construction and equipment of road and branches built by company.

Total expended for construction and equipment	\$228,913 73
Average cost per mile of road (not including sidings) 6 miles.	
Proportion of cost for Michigan—All.	

## CHARGES AND CREDITS TO PROPERTY DURING THE YEAR. New cars \$128 30 Net addition to property account.....

### ANALYSIS OF EARNINGS .- ROAD ALL IN STATE OF MICHIGAN.

### FREIGHT BARNINGS.

Main line and branches: Through traffic	\$28,446 85	
Total traffic	\$28,446 85	
Total freight department earnings		\$28,446 85 1 82
Per train mile		4,741 14
Total transportation earnings, entire line		\$28,446 85
Transportation earnings per mile of road	\$4,741 14 1 82	
Total earnings from operation of road		28,446 85
Total earnings per mile of road Total earnings per train mile	4,741 14 1 82	
Total income from all sources		28,446 85
Proportion of income for Michigan: All.		

### ANALYSIS OF EXPENSES.

### MAINTENANCE OF WAY AND STRUCTURES.

Repairs of roadway	
Repairs and renewals of buildings and fixtures	117 92
Total	\$7,654 66

### MAINTENANCE OF EQUIPMENT.

Superintendence	\$588 85 1,080 04 2,610 55
Total	\$4,278 94
•	

### CONDUCTING TRANSPORTATION.

Superintendence Engine and roundhouse men Fuel for locomotives Oil, tallow and waste for locomotives Other supplies for locomotives Train service Station supplies Other expenses	3,829 60 273 66 1,739 47 5,413 95 826 84
Total	\$15,901 77

### GENERAL EXPENSES.

Taxes	<b>\$</b> 611 <b>4</b> 8
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RECAPITULATION OF EXPENSES. Per cent Expens	
Maintenance of way and structures	
Maintenance of equipment 15.0	4 4,278 94
Conducting transportation55.9	0 15,901 77
General expenses, including taxes 2.1	5 611 48
Total operating expenses and taxes	\$28,446.85
Operating expenses and taxes per mile of road	. \$4,741 14
DESCRIPTION OF ROAD.  Date when the road was opened for use between its present termini: From Quincy Mine to Quincy Mill, March, 1890.	
MAIN LINE.	
In Michigan, from Quincy Mine to Quincy Mill.	Miles.
Total length completed	6
Aggregate length in Michigan of sidings, spurs and other tracks not above enumerated	
<del></del>	-
Aggregate length of tracks in Michigan belonging to this company, computed as single track	7.38
Gauge of track, 3 feet	
Number of bridges and trestles in Michigan.	
Numban	Aggregate
Number.	
	Length, feet. 9 1,517
Wooden trestles	9
Wooden trestles	9
Wooden trestles	9
Wooden trestles  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. R. at S. E. M Sec. 25, T. 55 N., R. 34 W.  Stations.	9
Wooden treetles	9 1,517
Wooden trestles  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. R. at S. E. M Sec. 25, T. 55 N., R. 34 W.  Stations.	9 1,517
Wooden treetles	9 1,517
Wooden trestles  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. R. at S. E. M Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigan.	9 1,517
What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigan  Employés.  Number of persons regularly employed on all roads operated by company, including official (all in Michigan)  Classify your employée as per following list:	9 1,517
What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigau.  Employés.  Number of persons regularly employed on all roads operated by company, including official (all in Michigan).  Classify your employée as per following list:  Brakemen	9 1,517 - 22 - 27 - Number.
Wooden treetles  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over: Franklin Tram B. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigan.  Employés.  Number of persons regularly employed on all roads operated by company, including official (all in Michigan)  Classify your employée as per following list:  Brakemen.  Conductors	9 1,517 - 22 - 27 - Number.
What railroads cross your road at grade in this State, and at what locality?  Mineral Bange Siding B. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram B. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigau.  Employés.  Number of persons regularly employed on all roads operated by company, including official (all in Michigan).  Classify your employée as per following list:  Brakemen  Conductors.  Engineers.	9 1,517 - 2 - 2 - 2 Number,
Wooden treetles  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigau  Employés.  Number of persons regularly employed on all roads operated by company, including official (all in Michigan)  Classify your employée as per following list:  Brakemen  Conductors  Engineers  Firemen  Laborers	9 1,517 - 2 - 2 - 2 Number,
What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigau.  Employés.  Number of persons regularly employed on all roads operated by company, including official (all in Michigan).  Classify your employée as per following list:  Brakemen  Conductors  Engineers  Engineers  Firemen  Laborers  Shopmen	9 1,517 - 2 - 2 - 2 Number,
Wooden treetles  Crossings.—Railroad and highway.  What railroads cross your road at grade in this State, and at what locality?  Mineral Range Siding R. R. at Quincy Mine.  What railroads cross your road either over or under your grade in this State, and where?  Over:  Franklin Tram R. R. at S. E. & Sec. 25, T. 55 N., R. 34 W.  Stations.  Number of stations on whole lines  Same in Michigau  Employés.  Number of persons regularly employed on all roads operated by company, including official (all in Michigan)  Classify your employée as per following list:  Brakemen  Conductors  Engineers  Firemen  Laborers	9 1,517 - 2 2 2 - 27 Number 2 2 3 - 20 - 2 3

### Road bed and track.

Number of track sections in Michigan  Average length of sections (miles)  Average number of men in each section gang  Number of new ties put in whole line during the year  Number of new ties put in track in Michigan  Average number of new ties per mile of road			1 6. 8 746 746 124
Bridges and culverts.			
Amount of trestle work replaced with stone during the year (linear feet)			870· ==
ROLLING STOCK.			
Number of locomatives of more than 30 tons weight, exclusive of tender	Number. m	resent en ated val	ue.
Total	8	\$16,000	00
Number of platform cars	8 50 1 2	\$1,100 16,000 150 800	00
Total =	61	\$18,050	00

What patterns of power brakes have you in use, and the number of locomotives and cars with each? Eames vacuum, 3 locomotives.

What pattern or patterns have you adopted for use?

Link and pin. (Deadwood meets before coupling is made.)

### MILEAGE TRAFFIC, ETC.

### Train mileage.

In Michigan.

Miles run by freight trains during the year		15,686	
Total mileage of trains earning revenue			15,686
Freight traffic.—Road all in State of 1	Michigan.		
Number of tons of through freight carried, earning revenue	Tons. 555,543	Miles. 6	Rate.
Total tons of freight carried, earning revenue	555,543		
Total freight mil-age or tons carried one mile	3,383,258	6	
Average amount received for each ton haul			\$0 051/4 081/4 081/4

### FREIGHT TRAFFIC MOVEMENT.—BOAD ALL IN STATE OF MICHIGAN.

### Company's material excluded.

### FREIGHT ORIGINATING ON THIS ROAD.—WHOLE TOMS.

Products of mines—(ores) copper rock	555,548
Total tonnage	555,543
Per cent	100.00

STATE OF MICHIGAN, 388.

S. B. Harris, vice president, and E. D. Johnson, secretary and treasurer, of the Quincy & Torch Lake Railroad Company, being duly sworn depose and say that they have caused the foregoing statements to be prepared by the proper officers and agents of this company, and having carefully examined the same, declare them to be a true, full and correct statement of the condition and affairs of said company, on the thirty-first day of December, A. D. 1896, to the best of their knowledge and belief.

[L. S. OF R. R.]

Signed,

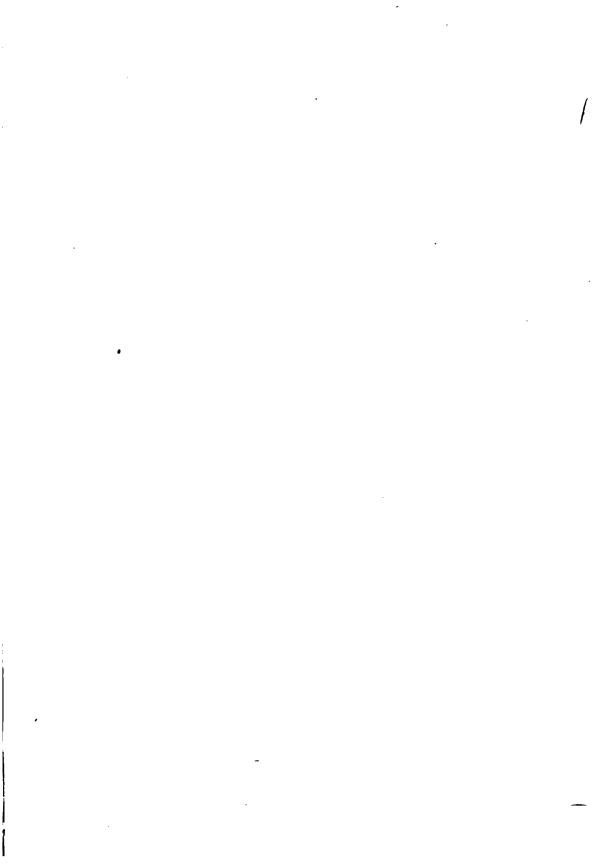
S. B. HARRIS, Vice President,

E. D. JOHNSON, Secretary.

Subscribed and sworn to before me this 19th day of March, A. D. 1897.

A. F. MACDONALD, Notary Public.

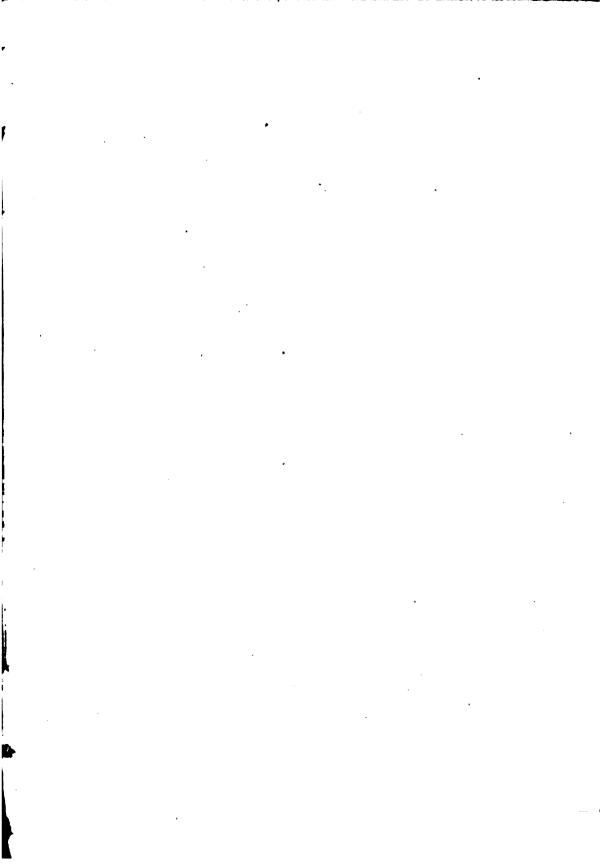


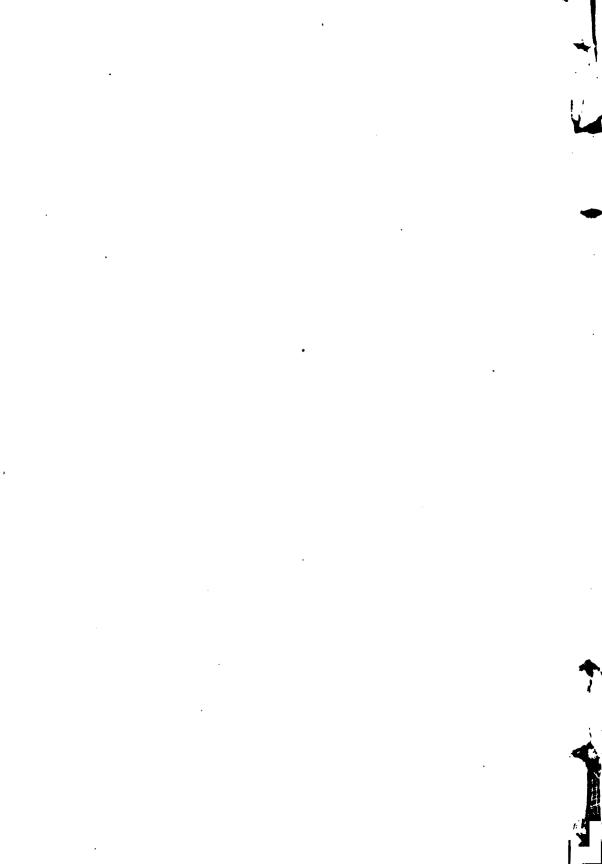


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